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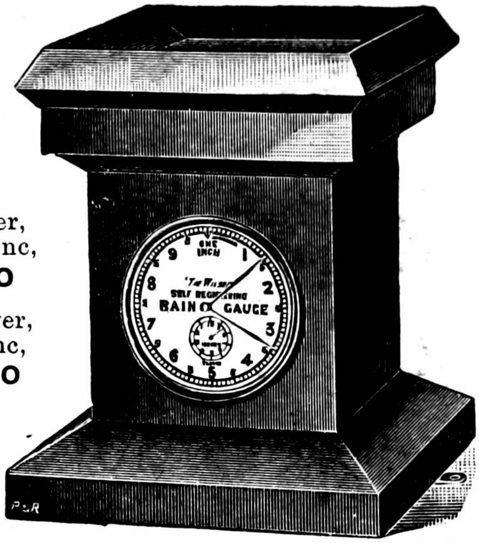
R. H. C. Wilson
SELF-REGISTERING
Rain Gauge.
With Improved Receiver to prevent splashing.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8-in. Receiver, Japanned Zinc, £3 10 0
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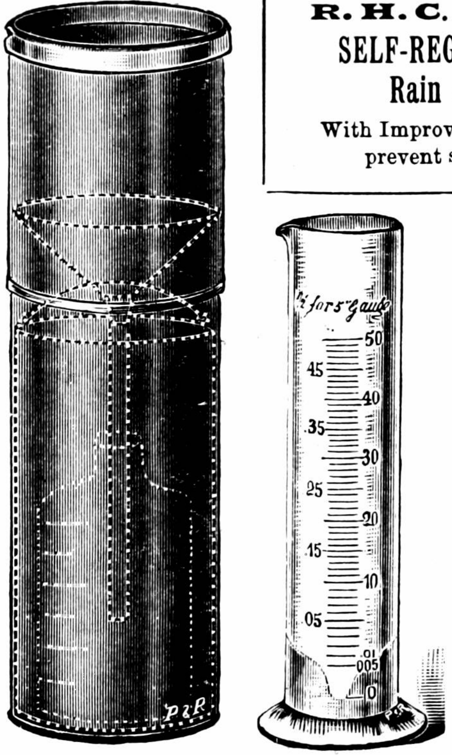
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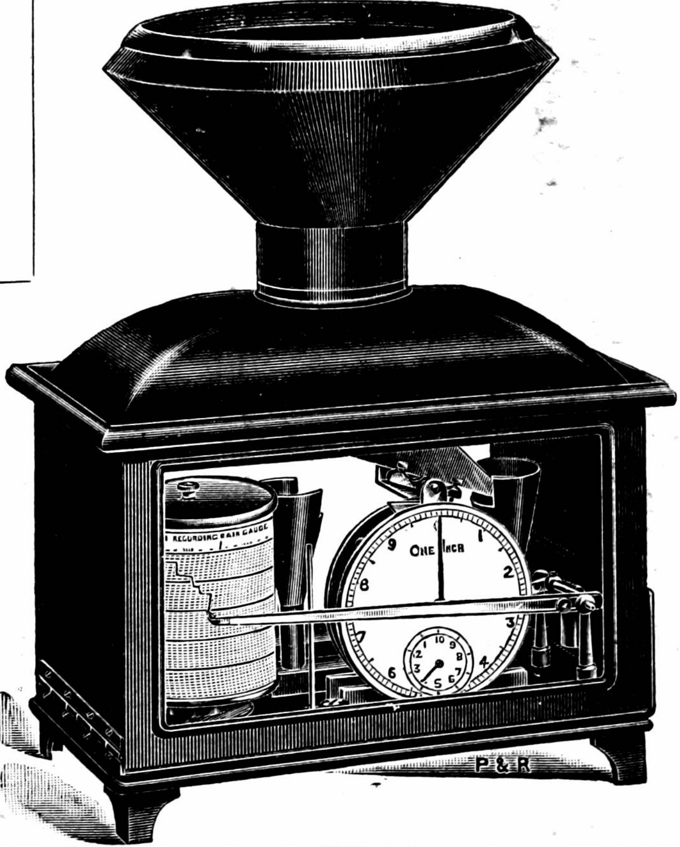
With strong copper body, extra heavy brass rim, inside glass receiver, and best engine-divided Standard "Camden" Measure, divided to either ·005 inch, or ·1 millimetre, with instructions for fixing.
£1 10 0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ONE INCH
P&R

The "Peandar"
SELF-RECORDING
Rain Gauge.
Records automatically on a Weekly Chart.

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Complete with one year's charts, ink, and instructions.

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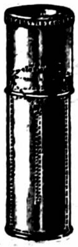
46, HATTON GARDEN, LONDON, E.C. 1.
ACTUAL MAKERS of STANDARD, SELF REGISTERING, and SELF RECORDING METEOROLOGICAL INSTRUMENTS of ALL KINDS.
WITH KEW, OR BRITISH RAINFALL ORGANIZATION CERTIFICATES, IF DESIRED.
☞ WRITE FOR ILLUSTRATED DESCRIPTIVE PRICE LISTS, POST FREE. ☜
⁂ *We pay carriage and guarantee safe delivery within U.K. on all our Instruments.*

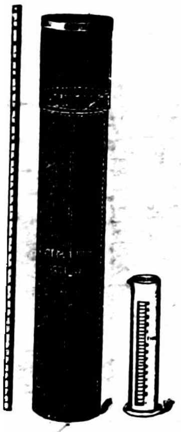
9 DEC 191

RAIN GAUGES
of approved design.



The "Snowdon";
the very well known pattern, with 5-in, diameter brass rim, complete with inner can, graduated glass bottle and measure.

"Meteorological Office" pattern, with 8-inch diameter brass rim, inside bucket and graduated glass measure. This is the type adopted by the Meteorological Office.



The "Mountain" Gauge is designed for use where the instrument can be visited only at rare intervals. It holds 27 inches of rain, and is supplied with graduated rod, inner can, and glass measure holding 1½ ins.

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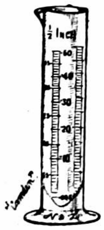
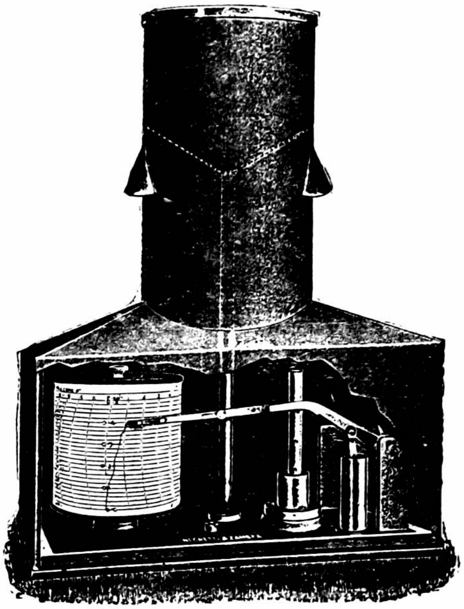
Our Measures are accurately calibrated and engine divided, the figures etched on by hand, and filled in with a white substance. They are superior in appearance, and in legibility.



In Recording Rain Gauges, the "Hyetograph" is a perfectly accurate and reliable instrument, distinguished by simplicity & originality.



Illustrated price-lists of Rain Gauges, etc., will be gladly sent post free on application.

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Scientific Instrument Makers,
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Branches: 5, Leadenhall St., E.C. 3, and 122, Regent St., W. 1.
Factories: { Half-Moon Works, Barnsbury, N. 1.
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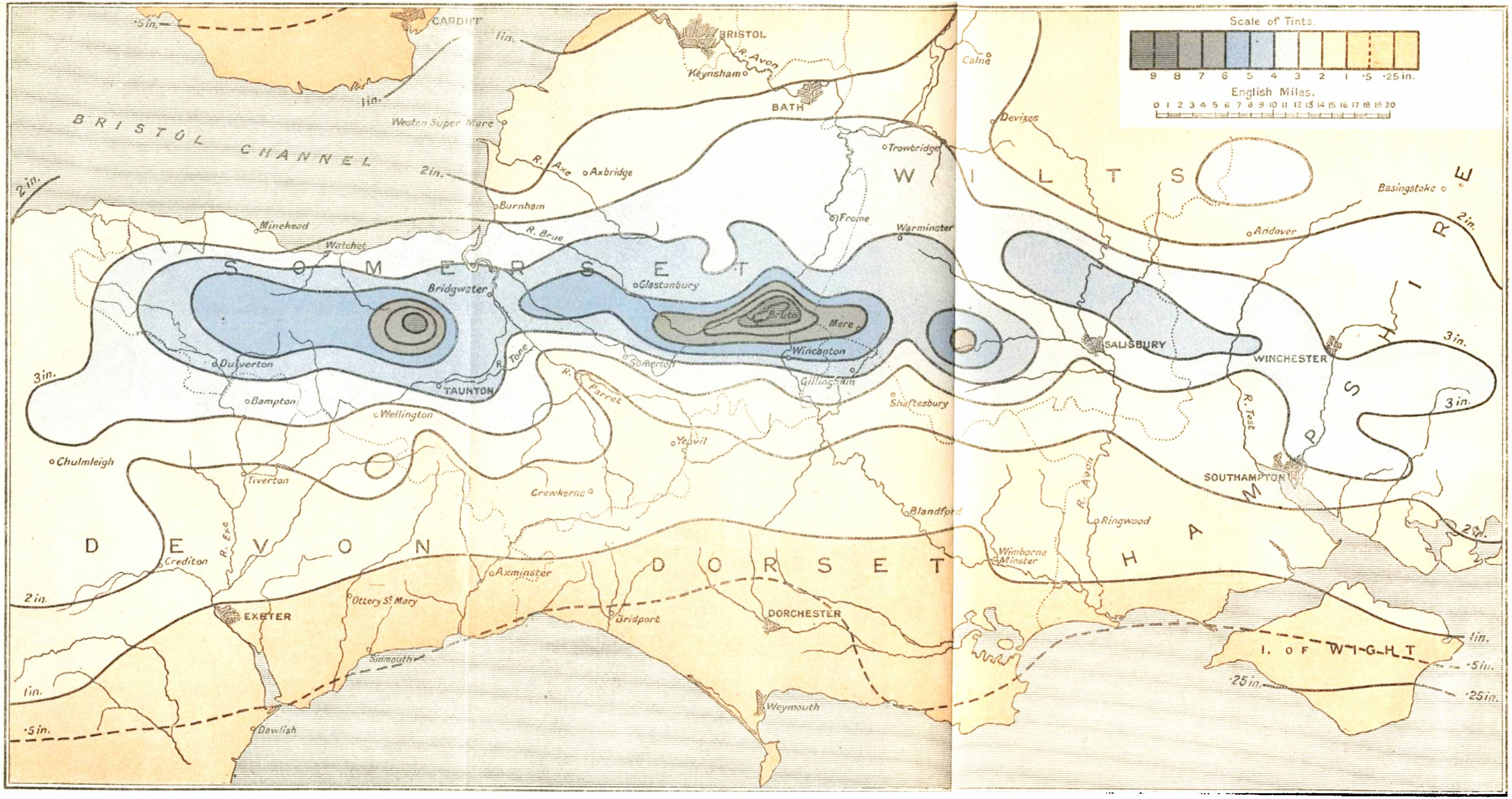
9 DEC 1918

BRITISH RAINFALL,
1917.

SHIELD & SPRING,
Printers.
Lancelot Place,
Brompton Road.

1300-xi.-18.

RAINFALL OF JUNE 28TH 1917.


Scale of Tints.
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English Miles.
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
BRISTOL CHANNEL
SOMERSET
WILTS
HAMPSHIRE
DEVON
DORSET
I. OF WIGHT
CARDIFF
BRISTOL
R. Avon
Keynsham
BATH
Calne
Devizes
Weston Super Mare
Trowbridge
R. Axe
Axbridge
Basingstoke
Burnham
Frome
Minehead
Warminster
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Bridgwater
Glastonbury
Bruton
Mere
SALISBURY
WINCHESTER
Dulverton
Wincanton
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TAUNTON
Gillingham
Bampton
R. Parret
Shaftesbury
Wellington
R. Test
Yeovil
Chulmleigh
Tiverton
SOUTHAMPTON
Crewkerne
Blandford
R. Avon
Ringwood
R. Exe
Crediton
Wimborne Minster
Axminster
Ottery St Mary
EXETER
Bridport
DORCHESTER
Sidmouth
Weymouth
Dawlish
·5 in.
1 in.
2 in.
3 in.
·25 in.

British Rainfall, 1917.]

[Frontispiece.

BRITISH RAINFALL, 1917.

ON THE DISTRIBUTION OF RAIN
IN SPACE AND TIME OVER
THE BRITISH ISLES

DURING THE YEAR

1917

AS RECORDED BY MORE THAN 5,000 OBSERVERS
IN GREAT BRITAIN AND IRELAND
AND DISCUSSED
WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK

BY

HUGH ROBERT MILL

AND

CARLE SALTER

JOINT DIRECTORS
OF THE BRITISH RAINFALL ORGANIZATION

THE FIFTY-SEVENTH ANNUAL VOLUME

WITH MAPS AND ILLUSTRATIONS

LONDON
EDWARD STANFORD, Ltd., 12 13 & 14, LONG ACRE, W.C.
1918.

ERRATUM IN BRITISH RAINFALL, 1915.

p. [257] Selkirk 2. line 2, Cramilt Lodge, *for* 34·93 *read* 36·57.

ERRATA IN BRITISH RAINFALL, 1916.

p. [21], last col. but one of table, last line, *for* 18 ***read*** 19.

p. [151], line 11 from bottom, Radcliffe Observatory, last column *for* 210 *read* 197.

p.]195], N. Lancs., **5**, line 3, St. Annes (Whitehall), *for* 28·94 *read* 28·74.

p. [240], Aberdeen **1**, line 8, *for* ,, (Forehill Works) *read* Peterhead (Forehill Works), and *transfer* to riv. div. **4**.

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PREFACE.

In spite of difficulties of an unprecedented kind arising mainly from the indirect effects of the War, the compilation of this volume has been completed nearly as early as last year. Its later date is due to the fact that the Preface is written on the day when the last MS. goes to the printers, and the section on "The Staff of Observers" cannot be compiled until Part III. is complete in type. This year re-arrangements in the manner of printing, in order to economise space, have caused delay to Part III., and so to the formal completion of the compilation.

Mr. Carle Salter has had an even heavier burden in preparing this volume than in the case of preceding issues, and the Trustees have indicated their appreciation of his services by appointing him Joint-Director with me of the British Rainfall Organization, which carries with it the joint editorship of this volume.

Special attention may be drawn to the remarkable number of new "records" of heavy rainfall set forth in this volume, chief amongst them being the greatest fall in one day ever observed in any part of the British Isles. This occurred at Bruton, on June 28th, 1917, and the facts are set forth fully in the first article in Part I. illustrated by the coloured map which forms the frontispiece.

H.R.M.

62, Camden Square,
London, N.W. 1.

28th September, 1918.

QUASI CURSORES VITAI LAMPADA TRADUNT.—

Lucretius.

EIGHTH ANNUAL REPORT OF THE DIRECTOR TO THE TRUSTEES OF THE BRITISH RAINFALL ORGANIZATION.

Adopted at the Meeting of Trustees held at 62, Camden Square, London,
on July 31st, 1918.

The Late D. S. Salter.—I have to record, with much regret, the death from wounds of Sec. Lieut. Donald S. Salter, R.G.A., on March 22nd, 1918. He had been for nearly ten years a member of the staff and had developed remarkable powers as a cartographer and map draughtsman. It is sufficient to turn over the volumes of our publications since that for 1906 to see how the quality of the map-work, which is an essential in the treatment of rainfall distribution, improved as its quantity increased from year to year. This is mainly due to the devotion with which Donald Salter applied himself to all branches of his difficult and highly technical work. He had got it to go so smoothly that it was only when he joined the Army that we realized how heavy the burden of this department had become and how difficult it was to improvise methods for carrying on the reduced amount of map-work which appears in the later volumes. A notice of the life and work of Donald Salter will be found in *Symons's Meteorological Magazine* for April, 1918, p. 25, and it only remains for me here to express my sense of the loss to the British Rainfall Organization and to rainfall research caused by the death of such a capable and promising assistant.

The Staff and the War.—On the day when Sec. Lieut. D. S. Salter received his fatal wound, March 21st, 1918, the other member of our staff at the front, Corporal H. E. Carter, R.E., who was also doing his share in resisting the first rush of the great German offensive in France, had the misfortune to be taken prisoner. We are happy to learn that he was unwounded and that to the not uninteresting duties assigned to him in the camp in Germany he adds a voluntary service as choirmaster to his comrades.

Mr. F. Wuyts on attaining the necessary age for service in the Belgian Army left the office on April 27th, 1918. We have also lost the very valuable help which Mr. R. C. Mossman rendered us for more than four years, as he found it necessary to leave London, and is now engaged on literary work in Edinburgh.

The vacancies so caused have been met in part by the generous occasional help of Mr. J. Fairgrieve, who has rendered invaluable service in the laborious work of plotting the monthly maps and the maps of heavy rainfalls for *British Rainfall, 1917.* Mr. M. J. Salter has again given much assistance in the statistical work. A new junior assistant, John Oliver, was taken on on February 5th, 1918: and, when her husband was called up for the Army, Mrs. Evans, the mother of our assistant, C. F. Evans, was induced to give her services in the Office where her help has proved of the greatest value. Mr. R. Lamport in spite of unsatisfactory health and advancing years has stuck to his post, his thorough knowledge of the established routine helping greatly to facilitate the office work.

Mr. Salter has had more than the share of both administrative and routine work which his position of Assistant Director requires, and for more than four months, since I met with a serious accident in March, he has conducted the whole work of the Organization. As it is unlikely that I can resume the full duties of Director at any early date I think it only an act of justice to ask the Trustees to appoint Mr. Salter Joint-Director with me, I continuing to be responsible personally for the finances of the Organization.

Observers and Stations.—There is reason to be satisfied with the way in which the Observers have maintained the work of collecting rainfall data. A diminution of numbers was inevitable on account of the continuance of the war, and the recent raising of the age for compulsory military service means that this diminution cannot yet be at an end. On the other hand, though many stations have dropped out, new stations have been started especially in Scotland and Ireland, some of which are situated in very important places. When the war is over there will almost certainly be an immediate increase in the total number. I have given much thought to the changes which should be made in order to take the fullest advantage of the period of reconstruction and hope soon to be in a position to put forward a scheme.

The five survivors of *British Rainfall, 1860-61,* mentioned last year continue to help us, and the usual co-operation of public departments, and private societies has been maintained. The necessity of restricting the size of this Report makes it impossible to record the names of our old helpers, but we must welcome the formation of the Manchester and Stockport Rainfall Association by Mr. A. A. Barnes, C.E. Unlike the older associations of this kind the latest comer not only publishes statistics of the rainfall of the district but a rainfall map as well.

Practically no inspection of rain gauges has been possible during the past year.

The Publications.—For many years our ambition was to make each succeeding volume of *British Rainfall* and of *Symons's Meteorological Magazine* larger and better than the last ; but, since the restriction of printing and the loss of trained assistants brought about by the war, all our efforts have been turned to keeping down the size of the publications and striving to attain this end without serious loss to their permanent value. The current issues are as small and as highly compressed as we can make them.

Scientific Work and Advice.—The loss of trained staff and the increased difficulty of carrying on the routine of the office has made it impossible to continue work on several researches which were in progress before the war. Amongst these may be mentioned the completion of the 50 years' average rainfall map of the British Isles, the discussion of hourly rainfall at Camden Square, though the records of a few additional years have been tabulated by the kind help of a former assistant, Mrs Cuffe, and the discussion of the relation of rain fields to cyclone tracks.

The monthly and annual maps of rainfall for the *Monthly Weather Report* of the Meteorological Office have been prepared and sent in regularly, and we have continued to assist Captain Cave in obtaining information for his study of winter thunderstorms. I contributed the usual preliminary report on the rainfall of the preceding year to *The Times* in January, and many newspaper correspondents have been supplied with information specially sought.

A rainfall-map of Ireland, as detailed as its small scale would permit, was supplied to Dr. J. F. Crowley for use in an enquiry by a Government Department on the Water Power of that country. Special information was also supplied to Mr. W. Vaux Graham, C.E., and Mr. A. Newlands, C.E., for discussions on the Water Power of Scotland, submitted by them to the Sub-Committee of the Conjoint Board of Scientific Societies on the Water Power of the British Empire, of which Sub-Committee I was a member. I have also been appointed a member of the Committee on the Water Power of the United Kingdom set up by the Board of Trade in conjunction with the Ministry of Reconstruction. Information and advice have been given to the Hydrographic Department of the Admiralty and to the Board of Agriculture and Fisheries.

Our correspondence, as usual, has included a considerable number of requests for assistance in compiling local rainfall maps for scientific or educational purposes, and in all cases such assistance as was possible has been given.

I have acted as member of Council and Chairman of the Research Committee of the Royal Geographical Society, presiding at the afternoon meetings of that Society, and taking part in the discussion of a number of papers on various branches of physical geography.

Mr. Salter has served on the Council of the Royal Meteorological Society and has taken part in the discussions of the Society. He has given educational lectures on meteorological subjects to the Hampstead Scientific Society, Brunswick School, Hayward's Heath, and to a camp of the Royal Flying Corps.

Honour to the British Rainfall Organization.—The Royal Meteorological Society has awarded the Symons Memorial Medal for 1918 to the Director of the British Rainfall Organization in recognition of services to meteorological science which were only rendered possible by the unfailing devotion of the permanent staff and the persevering co-operation of generation after generation of voluntary Observers.

Professional Work by Director.—Under Clause 25 of the Trust Deed I have continued to act as Rainfall Expert to the Metropolitan Water Board. I have completed my work as one of the Referees under the

Abertillery and District Water Act, 1910. As in former years I have reported to the Thames Conservancy, and to the Birmingham and the Birkenhead Corporations on the rainfall of the areas under their charge. With Mr. Salter's assistance I reported and gave evidence on rainfall in the Nelson Water Bill, 1914, and have investigated and reported on the rainfall of a number of gathering grounds in England, Wales and Scotland, with a view to the preparation of new schemes for Water Supply and Water Power.

New Postal Arrangements.—The alteration of postal rates in July, 1918, does not, we are glad to learn officially from the Post Office, require any increase of the halfpenny rate hitherto requisite on Form C used by Observers reporting monthly. It is now necessary, however, to delete the words " Post Card " and write in " Printed Matter " on the face of the form, and to fill up the card only with the place and month, and the observed figures of rainfall and remarks on the weather. Nothing of the nature of a letter must appear, hence no personal message or request for publications or the like is admissible.

The General Fund.—While under no obligation to publish an account of the finances for which I am personally responsible under the Trust Deed, I feel that it is due to the subscribers to keep detailed accounts which are open to the inspection of any subscriber on personal application at 62, Camden Square, and I again present an accurate summary of the income and expenditure of the year with which the volume deals. It will be observed that the income for 1917 is about £30 greater than that for 1916 ; while in spite of the utmost economy and the cutting down of the publications the expenses for 1917 are more than £100 greater than for 1916, so that I have had to meet a deficit of £90. It is not right that a work of national importance, after nearly sixty years of increasing activity, should be in such a state. But for the war we believe that the Endowment Fund would by this time have attained substantial proportions and made the Organization self-supporting.

Receipts on Account of British Rainfall Organization, 1917.

	£	s.	d.
Subscriptions	1102	17	10
Sales to Public	54	7	6
Advertisements	55	4	8
Certificates	5	17	0
Supplying Rainfall Data	23	14	3
Maps and Literary Work	43	11	0
Interest on Endowment Fund and Bank Deposit	64	11	2
Meteorological Office, towards expenses of Metric Conversion	30	0	0
TOTAL	£1380	3	5

Expenditure on Account of British Rainfall Organization, 1917.

	£	s.	d.
British Rainfall and *Symons's Meteorological Magazine* (including Postage)	494	18	7
Observers and Instruments	27	2	5
Salaries and Assistance	660	1	9
Printing, Stationery and Establishment Expenses	208	14	7
General Postage, Telephone, Petty Cash and Miscellaneous Expenses	80	5	3
TOTAL	**£1471**	**2**	**7**
DEFICIT, met by Director	**90**	**19**	**2**

62, CAMDEN SQUARE,
LONDON, N.W., 1.

HUGH ROBERT MILL.

TREASURER'S REPORT FOR THE YEAR 1917.

The following sums have been received :–	£	s.	d.
Balance from 1916	47	14	11
R. Cooke, Esq. (8th Don.)	4	5	0
Col. H. Mellish, C.B. (4th Don.)	50	0	0
Executor of the late L. J. Nicholson, Esq.—Legacy	10	0	0
Executors of the late George Searle, Esq. (1st portion of Legacy of £200)	140	0	0
Under £2	1	0	0
	£252	19	11

The recognition of the importance and usefulness of the work of the Organization, shown by the bequests of the legacies above referred to, is gratifying.

In accordance with the authority of the Trustees given at their meeting on August 17th, 1917, £31 has been expended on repairs to the roof of the office in the garden, £100 5% War Stock, 1929-47, and a £100 5% National War Bond, 1927, have been taken up, leaving a cash balance of £26 9s. 11d. on December 31st, 1917.

On July 31st, 1918, the Trustees held as the Endowment Fund :—£2,151 11s. 3d. North British Railway 3% Debenture Stock, £123 5s. New South Wales 3% Inscribed Stock, £100 5% War Stock, 1929-47, £100 5% National War Bond, 1927, £64 14s. 10 cash.

Between the end of 1917 and July 31st, 1918, the following further sums have been received :—

	£	s.	d.
R. Cooke, Esq. (9th Don.)	4	5	0
Executors of George Searle Esq. (Balance of Legacy of £200 ; it is understood that this is all that will be received)	33	19	11
	£38	4	11

THE PRINCIPAL DONATIONS TO THE ENDOWMENT FUND RECEIVED UP TO JULY 31ST, 1918, WERE AS FOLLOWS :—

Boughton, Miss F. H. Rouse	£110
Brook, Charles L., Esq.	£500
Druce, Francis, Esq.	£200
Freshfield, D. W., Esq., D.C.L.	£200
Mellish, Lt.-Col. H., C.B.	£300
Morrison, W., Esq.	£215
Murray, the late Sir John, K.C.B., F.R.S.	£100
Searle, the late G., Esq. (legacy)	£174

Francis Druce, *Treasurer, Endowment Fund.*

THE BRITISH RAINFALL ORGANIZATION.

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CARLE SALTER,
Joint-Directors.

RICHARD LAMPORT, *Assistant in charge of Monthly Records.*
[Corporal HARRY E. CARTER, F.R.Met.Soc., *Chief Computer.*] } (On War Service.)
[JOHN GLASSPOOLE, B.Sc., *Assistant Computer.*] }
MRS. EVANS, *Computer.*
C. F. EVANS, *Junior Assistant.*
J. OLIVER, *Junior Assistant.*

MRS. HAMPTON, *Housekeeper.*

Bankers :—NATIONAL BANK LIMITED, Camden Town Branch.

Office :—62, CAMDEN SQUARE, LONDON, N.W. 1.
Telephone, 142 North.

SUBSCRIPTIONS AND PAYMENTS OF £1 OR MORE FOR PUBLICATIONS AND CONTRIBUTIONS TO THE GENERAL EXPENSES OF RAINFALL INVESTIGATIONS FROM JANUARY 1st TO OCT. 11th, 1918.

HIS MAJESTY THE KING........£2 2s.

CORPORATIONS AND WATER COMPANIES.

	£	s.	d.
Aire and Calder Navigation Co...	1	6	0
Birmingham Corporation	2	12	0
Bolton ,, ...	2	2	0
Bradford ,, ...	1	1	0
Brighton ,, ...	1	10	0
Bristol Waterworks Co.	1	1	0
Bury and Dist. Joint Water Board	1	0	0
Cambridge Water Works Co.....	1	1	0
Cardiff Corporation	1	1	0
Chatham Waterworks Co.	1	1	0
Cheltenham Corporation (4 *years*)	1	15	0
Clevedon Water Works Co.	1	1	0
Croydon Corporation	1	1	0
Doncaster Corporation	1	1	0
Glasgow Corporation	1	11	0
Gosport Water Works Co.	1	1	0
Hastings Corporation	1	1	0
Hornsey ,, ...	1	0	0
Hull ,, (2 *years*)..	1	11	0
Leeds and Liverpool Canal Co...	1	1	0
Leeds Corporation	1	1	0

	£	s.	d.
Leicester Water Works	1	17	0
Lowestoft Gas and Water Co. ..	1	1	0
Metropolitan Water Board......	7	7	0
Middlesbrough Corporation	1	1	0
Mid-Kent Water Co.............	1	1	0
Newport Corporation	1	1	0
Nottingham ,, ...	1	1	0
Oldham ,, ...	1	11	0
Ramsgate ,, ...	1	10	0
Rochdale ,, ...	1	1	0
Sheffield ,, ...	1	1	0
Southgate U.D. Council	1	0	0
Southport Corporation	1	1	0
Southend Waterworks Co.	1	11	0
South Staffs. Waterworks Co. ..	1	0	0
Staffordshire Potteries W. Co. ..	1	1	0
Tilbury U.D. Council	1	1	0
Weaver Navigation Trust	5	5	0
Yeovil Gas Works	1	0	0
Yorkshire Fishery Board	1	1	0

	£	s.	d.
Adair, Sir R. Shafto, Bart.......	1	1	0
Agar, E. L., Esq.	1	1	0
Aitken, John, Esq., F.R.S.......	2	0	0
Aldenham, Lord................	2	17	0
Allan, Captain Claud A.	1	10	0
Allen, E. Heron, Esq.	1	1	0
Allhusen, Henry, Esq.	1	1	0
Allison, Sir R. A.	1	0	0
Ames, F., Esq.	2	0	0
Anderson, John, Esq.	1	1	0
Appach, Miss	1	1	0
Argles, Major T. A.	1	0	0
Armitage, Capt. S. H.	1	1	0
Assheton, R. C., Esq.	1	0	0
Astley, Miss C. C.	1	0	0
Aston, Miss E. A.	1	6	0
Austen, Rev. W. A. E...........	1	1	0
Backhouse, T. W., Esq.	2	15	0
Bacon, Capt. R. C.	1	1	0
Bacon, T. W., Esq.	1	1	0
Bailey, Allanson, Esq.	1	1	0
Bailey, H. J., Esq..............	1	1	0
Bain, H., Esq..................	1	1	0
Baker-Gabb, R., Esq.	1	11	6
Bankes, Lord Justice............	1	1	0
Barbour, Dr. G. F..............	2	0	0
Baring, Hon. Cecil..............	2	0	0
Barnes, A. A., Esq., C.E.	1	7	0
Bartholomew, J. G., Esq., LL.D.	2	2	0

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Basing, Lord	1	1	0
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Beckford, F. W., Esq.	2	0	0
Belben, E. Philip, Esq.	1	1	0
Bell, S. A., Esq................	1	1	0
Bell, W. Heward, Esq.	2	0	0
Bentley, R., Esq................	4	4	0
Benyon, J. H., Esq.	1	10	0
Berners, C. H., Esq.	1	1	0
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Betteridge, R. H., Esq.	1	1	0
Bibby, Col. Alfred	1	10	0
Bickham, Spencer H., Esq.......	1	1	0
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Birdsall, H. D., Esq.............	1	0	0
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Birkmyre, John, Esq.	1	0	0
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Blake, Capt. J.	2	17	0
Bland, Francis Lawrence, Esq...	2	2	0
Bland, F. M., Esq..............	1	5	0
Bolton, M. A., Esq.	2	0	0
Bond, J. W. G., Esq.	1	1	0
Bonney, Prof. T. G., F.R.S.	1	1	0
Bosanquet, W. D., Esq.	1	1	0
Boston, Lord	4	3	0
Boughton, Miss F. H. Rouse	2	0	0

	£	s.	d.
Bouverie, Miss A. Pleydell	1	0	0
Bouverie, H. H. P., Esq.	2	2	0
Bowers, Col. Maunsell	1	2	0
Bowman, Dr. H. L.	1	1	0
Boyd, A. H., Esq.	1	1	0
Boyne, The Viscountess	1	1	0
Boys, Rev. H. A.	2	2	0
Bradford, The Earl of	1	0	0
Bromhead, Col. C. J., C.B.	1	1	0
Broodbank, Sir J. G.	1	0	0
Brook, C. L., Esq.	15	0	0
,, ,, (*Towards 1917 deficit*)	45	0	0
Brown, W., Esq.	1	0	0
Browne, E. T., Esq.	1	1	0
Brunner, Mond & Co., Messrs.	4	13	0
Buchanan, Lt.-Col. J. B. (2 *years*)	1	0	0
Buckinghamshire, The Earl of	2	4	6
Buckley, Mrs.	1	1	0
Buckley, T. H. W., Esq.	1	1	0
Budgen, Janssen, Esq.	1	0	0
Bugden, P. H., Esq.	1	1	0
Bullied, Dr. Arthur	1	10	0
Burges, Lt.-Col. P.	1	1	0
Burn, Col. C. R., M.P.	1	0	0
Burnell, C. E., Esq.	1	1	0
Burton, Dowager Lady	1	1	0
Burton, Mrs.	1	1	0
Butt, Harley, Esq.	1	1	0
Butterworth, C. F., Esq.	2	0	0
Cadell, H. M., Esq.	1	1	0
Caird, J. A. Henryson, Esq.	1	0	0
Carr-Gomm, F. C., Esq.	1	0	0
Carter, W. J., Esq.	1	6	0
Cartwright, E. H., Esq.	1	1	0
Caulfeild, Mrs. R. M.	1	1	0
Cave, Capt. Charles, J.P., R.E.	2	15	0
Cave, Mrs.	1	0	0
Chavasse, Major H.	1	0	0
Christy, W. M., Esq.	2	10	0
Clare, J. F. Leigh, Esq.	1	1	0
Clark, Godfrey L., Esq.	2	0	0
Clark, J. Edmund, Esq.	2	6	6
Clark, W. S., Esq,	1	0	0
Clarke, Harvey R. G., Esq.	1	1	0
Clarke, R. Stanley, Esq.	1	5	0
Clay, Alfred, Esq.	2	0	0
Clough, P., Esq.	1	1	0
Coates, Henry, Esq.	1	1	0
Cole, Rev. Canon R. E. G.	1	0	0
Collingwood, A. B., Esq.	1	0	0
Constantine, H., Esq.	1	1	0
Constantine, J., Esq.	1	1	0
Coode, R. C., Esq.	2	0	0
Coode, W. M., Esq.	1	1	0
Cookson, H. Theodore, Esq.	1	3	0
Copland, M. B., Esq.	1	1	0
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Cowans, N. D., Esq.	1	1	0
Cowell, Rev. M. B.	1	1	0
Cox, W. H., Esq.	1	0	0
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Deverell, W. H., Esq.	1	1	0
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Dixon, James, Esq.	1	1	0
Dobie, Mrs.	1	0	0
Dowson, Miss	1	1	0
Druce, F., Esq.	5	5	0
Druce, J. A., Esq.	1	1	0
Ducie, Earl of	2	0	0
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Dunlop, Miss	1	10	0
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Elliott, Mrs. Aubrey	1	1	0
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Ellis, Major J. Shipley	1	15	0
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Ellison, Rev. J. Eldon	1	1	0
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Fleming, T. K., Esq.	1	0	0
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Groves, W. G., Esq.	1	8	10
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Grubb, J., Esq.	1	1	0
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Harrison, Capt. R. N.	1	1	0
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Hayward, Lieut. J.	1	0	0
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Holland, Herbert, Esq.	1	1	0
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Holmes, J. H., Esq., C.E.	1	0	0
Holroyd, Frank, Esq.	1	5	0
Honeyball, Col. J. F.	1	0	0
Hood, Lt.-Col. E.	2	2	0
Hooker, C. P., Esq.	1	1	0
Hooper, Miss	1	0	0
Hooper, J. K,, Esq.	1	1	0
Hope, G. P., Esq.	1	1	0

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Horner, D. W., Esq.	1	0	0
Horsfall, T. C., Esq.	1	11	0
Hounsom, W. A., Esq.	2	0	0
Howell, J. M., Esq.	1	6	0
Howells, T. M., Esq.	1	6	6
Hughes, Lady	1	0	0
Hughes-Hughes, M. E., Esq.	1	1	0
Hulkes, C. J. G., Esq.	1	0	0
Hunter, J., Esq., C.E.	1	12	6
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Hutchinson, Miss E.	1	0	0
Hutton, Miss H. M.	1	0	0
Hutton, Stamford, Esq.	1	6	0
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Iveagh, Viscount, K.P.	1	1	0
Jameson, J. G., Esq.	1	1	6
Jenkin, A. P., Esq.	2	0	0
Jenkyns, Lady	1	0	0
Jersey, The Earl of	1	0	0
Johnson-Fergusson, The Hon. Mrs.	1	1	0
Johnston, H. W., Esq.	1	1	0
Jones, Mrs. J.	1	1	0
Jones-Balme, F. E. T., Esq.	1	1	0
Kennedy, James, Esq.	1	0	0
Ker, Major R. M.	2	10	0
Ker, Major James	1	0	0
Kilburn, B. E. Dunbar, Esq.	2	0	0
King, L. G., Esq.	1	10	0
Knowles, G., Esq.	1	1	0
Laidlay, R. W., Esq.	1	0	0
Lamb, E., Esq., M.P.	1	1	0
Langer, Dr. Carl	1	1	0
Langford, The Lord	1	1	0
Langston, H., Esq.	1	0	0
Latchmore, A., Esq.	1	1	0
Latham, P. H., Esq.	1	2	8
Latham, T., Esq.	1	0	0
Laurie, Sir Claude V. E., Bart.	2	2	0
Lawes Agricultural Trust	1	1	0
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Lee, E. A., Esq.	1	1	0
Leigh, W. B., Esq.	1	1	0
Leslie & Reid, Messrs. J. & A., C.E.	1	11	0
Lingard, T. D., Esq.	1	1	0
Lister, Miss G.	1	10	0
Lithgow, Miss M.	1	0	0
Little, Mrs. D.	1	1	0
Littleboy, F. Esq.	1	5	0
Littleboy, F. Esq.	1	1	0
Llewelyn, Sir J. T. D., Bart.	1	11	0
Llewelyn, Lt. F. D.	2	15	6
Lodge, L. W., Esq.	1	3	0
Lomer, Miss E. S.	2	0	0
Longfield, R. E., Esq.	1	0	0
Longstaff, Dr. G. B.	4	0	0
Lovelace, The Earl of	1	5	0
Low, A. H., Esq.	1	0	0
Lowis, A. E., Esq.	1	10	0
Lowther, The Rt. Hon. J. W., M.P.	1	0	0

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M.M.M.	100	0	0
Macadam, Miss	1	0	0
MacAndrew, J., Esq.	1	0	0
McDouall, Kenneth, Esq.	1	5	0
Mace, J. Ellis, Esq.	2	2	0
McEuen, E. S., Esq.	2	0	0
McEwan, J., Esq.	2	2	0
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McInnes, E. Esq.	1	0	0
McInroy, Col. Chas., C.B.	1	0	0
Maclean of Ardgour, Capt. A. J. H.	1	1	0
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McNab, Andrew, Esq.	1	1	0
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Mansergh, Lt.-Col. A. W.	1	1	0
Mansergh & Sons, Messrs. J., C.E.	2	2	0
Margary, Lieut. I. D.	5	15	0
Markham, Major C. A.	1	0	0
Marling, Capt. W. B.	1	1	0
Marling, Sir W. H., Bart.	1	1	0
Marriott, W. K., Esq.	1	11	6
Marsh, G. R., Esq.	1	0	0
Marshall, Mrs.	5	15	0
Marston, F. E., Esq.	1	1	0
Mason, Mrs. T.	1	1	0
Masterman, J. S., Esq.	2	6	0
Matthews, Capt. G. E., R.E.	1	1	0
Maudsley, A. P., Esq.	1	1	0
Maxwell, Miss	1	0	0
Mead-Briggs, T. H., Esq.	1	1	0
Meek, H. E., Esq.	1	16	0
Melles, J. W., Esq.	1	1	0
Mellish, Lt.-Col. Henry, C.B.	20	0	0
Melville, A. H. Leslie, Esq.	1	1	0
Merthyr, Lord	1	16	2
Metcalfe, T. T. S., Esq.	1	10	0
Metcalfe, W. P., Esq.	1	11	0
Mitchell, Col. Alex.	2	2	0
Moat, Major W.	1	0	0
Mond, Robert L., Esq.	5	0	0
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Moore, Sir J. W., M.D., D.Sc.	1	0	0
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Morrison, W., Esq.	1	0	0
Morrison-Bell, Capt. Sir C., Bart.	1	0	0
Mullins, A. G., Esq.	1	2	0
Mulock, H. P., Esq.	1	1	0
Murphy, E. W. M., Esq.	1	1	0
Murton, Miss	1	1	0
Myers, W. H., Esq.	1	1	0
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Napier, Capt. W. E.	2	4	0
Newcastle, The Duke of	1	1	0
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Oliver, Mrs.	1	1	0
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Ouvry, P. Arnold, Esq.	1	0	0
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Palairet, H. H., Esq.	2	0	0
Palmer, A., Esq.	1	11	0
Palmer, G., Esq., C.E.	1	3	6
Pares, Rev. Norman	1	0	0
Parker, Miss	1	1	0
Parker-Hutchinson, S. G. J., Esq.	1	0	0
Parsons, Miss	1	1	0
Paterson, Rev. T. M. B.	1	1	0
Peal, H. W., Esq.	1	10	0
Pease, J. H., Esq.	5	16	0
Peckover of Wisbech, Lord	5	10	0
Peel, W., Esq.	1	0	0
Penfold, Miss	1	1	0
Philipson-Stow, Lady	1	11	6
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Pickard, W., Esq.	2	17	0
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Pirie-Gordon, E., Esq.	1	0	0
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Plenderleath, Capt. C. W. M., R.N.	1	0	0
Plevins, E. N., Esq.	3	5	8
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Powell, C. M., Esq.	1	1	0
Powell, Legh S., Esq.	1	0	0
Preston, A. W., Esq.	1	0	0
Price, C., Esq.	2	2	0
Price, Lt. James B., R.E.	1	1	0
Price, John B., Esq.	1	1	0
Pryor, M. R., Esq.	1	1	0
Pullar, Laurence, Esq.	5	0	0
Radford, Miss	1	0	0
Radnor, The Earl of	1	15	0
Ramsden, R. C., Esq.	1	0	0
Ramsden, Miss	1	1	0
Ransom, F., Esq.	1	5	0
Rashleigh, Rev. A. S.	1	0	0
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Rashleigh, E. S., Esq.	1	16	0
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Reynolds, E. W., Esq.	1	16	0
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Robinson, Frank, Esq., M.D.	1	10	0
Robson, Rev. E. F.	1	0	3
Rogers, H. K. G., Esq.	1	0	0
Rogers, Lt.-Col. J. M., D.S.O.	1	5	0
Rolleston, Col. W. V.	1	11	0
Roper, Mrs.	2	2	0
Rose, Sir Philip F., Bart.	1	1	0

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Russell, The Earl	1	0	0
St. Maur, Lord Ernest	1	1	0
Sainty, C., Esq., C.E.	1	1	0
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Scott, C. H., Esq.	1	1	0
Scott, J., Esq.	1	1	0
Scott, Lady Mary	1	0	0
Scratton, Arthur, Esq.	1	1	0
Scrutton, J. H., Esq.	1	1	0
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Sing, Roger P., Esq.	1	1	0
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Soames, Capt. R.	1	0	0
Somerset, The Duke of	1	1	0
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Sugden, Hatton G., Esq.	1	1	0
Swinton, A. E., Esq.	2	0	0
Sykes, A. H., Esq.	1	0	0
Tabor, H. S., Esq.	1	0	0
Tailyour, W. Stewart, Esq.	1	0	0
Tatham, Leonard J., Esq.	1	5	6
Tatham, M. T., Esq.	1	0	0
Tatton, R. A., Esq.	1	1	0
Tatton, T. Egerton, Esq.	1	10	0
Tawney, Miss E. M.	1	10	0
Taylor, C. E., Esq.	1	1	0
Taylor, Capt. E. R.	7	0	0
Taylor & Sons, C.E., Messrs. J.	1	1	0
Taylor, W., Esq.	1	1	0
Tew, E. G., Esq.	1	1	0
Thomas, J. F., Esq.	1	5	0

	£	s.	d.
Thompson, Mrs. Heywood	1	1	0
Thompson, Mrs. H. Yates	1	1	0
Thomson, J., Esq.	1	1	0
Tidswell, R. J., Esq.	1	1	0
Topham, Rev. H. G.	1	7	6
Towse, Sir J. Wrench	1	10	0
Trench, J. A., Esq.	1	2	0
Trew, J. P., Esq.	1	1	0
Tritton, J. H., Esq.	2	12	0
Truell, Rev. W. H. A.	1	1	0
Twist, Lt. T. F.	1	0	0
Tyack, G. Ashley, Esq.	1	1	0
Urmson, Rev. Canon T.	1	15	0
Vernon, J. H., Esq.	2	2	0
Vint, W. F., Esq.	1	1	0
Waddingham, T. J., Esq.	2	2	0
Waldegrave, The Earl of	1	17	6
Walker, Capt. A. J.	6	0	0
Walker, A. O., Esq.	1	10	0
Walker, Messrs. J. & T.	1	0	0
Walker. J. H., Esq.	1	0	0
Wallace, Miss M.	1	1	0
Walter, Rev. F. W.	1	0	0
Walters, F. R., Esq., M.D.	1	1	0
Wanklyn, J. A., Esq.	1	1	0
Ward, J., Esq., C.E.	1	0	0
Webb, Capt. F. D.	1	0	0
Webber, W. Downes, Esq.	1	1	0
Weber, Mrs. Edward	1	1	0
Welby, Sir C. G. E., Bart., C.B.	1	1	0
Welch, J., Esq.	1	1	0
Welch, W. G., Esq.	2	0	0
Weldon, E., Esq.	1	1	0
Weller, G., Esq.	1	0	0
Weston, G., Esq.	1	1	0
Weston, J., Esq.	1	1	0
Whitaker, B. I., Esq.	1	0	0
Whitchurch, J. Arnold, Esq.	1	1	0
White, J. Martin, Esq.	1	1	0
White, W. J., Esq.	1	1	0
Whitehead, Mrs. Lionel	1	1	0
Whittington, C. J., Esq.	1	0	0
Wilde, Mrs.	1	1	0
Wilkin, Mrs. A.	1	6	0
Wilkin, F., Esq.	2	10	0
Wilkinson, W. King, Esq.	1	1	0
Williams, Rev. Leonard A.	1	1	0
Wills, Dr. W. A.	1	1	0
Wilson, Albert, Esq.	1	15	0
Wilson, Alex. M., Esq.	1	0	0
Wilson, Miss, C.E.	1	0	0
Wolferstan, Mrs.	1	1	0
Wood, Rev. C. H. B.	1	1	0
Wood, J. G., Esq.	2	2	0
Woodhead, James, Esq.	1	1	0
Woodhouse, Miss E. D.	2	2	0
Woodruff, Dr. J. W.	1	1	0
Woods, Miss	1	0	0
Wordsworth, Gordon G., Esq.	2	0	0
Worthington, W. B., Esq., C.E.	1	0	0
Wright, P. Lennox, Esq.	1	1	0
Wright, Major W. (2 *years*)	1	0	0
Wynne, E. N., Esq., C.E.	1	6	6
Yool, Mrs. H.	1	1	0

THE GREAT RAIN STORM OF JUNE 28th, 1917.

THE rainfall of June 28th, 1917, or, more exactly, if we use the civil day, of the night of June 28th-29th, was probably, as regards the total fall in certain areas, the most remarkable of which any record has been preserved for the British Isles. Though considerably less widespread than some of the great individual rain storms which have been described in previous volumes of *British Rainfall* (the area with more than 4 inches was less than half that in the East Anglian rain of August 26th, 1912), the amount of rain recorded at stations in the central cores of highest fall, situated respectively on the Quantock Hills and round Bruton, surpassed by a broad margin any previously recorded daily rainfall for the British Isles. Fortunately, from a scientific point of view, though less so possibly from any other, the whole of the area of high rainfall lay over a fairly thickly-populated part of England, so that the number of points of observation from which we have been able to obtain information upon which to base a study of the facts is much more satisfactory than has often been the case. The total number of records used in plotting the large scale map on which this description is based was 1,950. The storm also presents the somewhat unusual feature for a cyclonic rain over the British Isles that no important part of it took place over the sea and we are thus enabled to calculate the total volume of the rainfall with a closer approach to completeness than is sometimes the case.

The barometric conditions associated with the rainfall are broadly indicated by the cyclone track marked on the map on page 25. The course of the depression, which was of small size, appears to have been approximately from west to east, along the English Channel, the distance covered during the 24 hours of the rainfall day being about 350 miles from a point near Ushant to the east coast of Kent. The details of the track have been kindly supplied by the Meteorological Office. Mr. F. J. Brodie points out a feature of unusual interest, viz., that the central area of low pressure, which existed on the morning of the 28th, spread, rather than moved, eastward during the day, and by 6 p.m. had divided into two distinct low pressure areas, one lying near the original position off the coast of Brittany, the other over Belgium. Each of these centres exhibited a definite wind circulation. These had coalesced by 7 a.m. To this peculiarity must be added the fact that, judging by the track as laid down, the direction of movement was abruptly modified on the morning of the 29th from north-eastward to south-eastward. On three previous occasions* of rainstorms of a magnitude unprecedented in their time we have pointed out an exactly similar relation of the associated cyclone track which in each case turned abruptly to the right at the close of the rainfall day. In each case the centre of greatest rainfall lay to the left of the track and was situated somewhat similarly in respect to the point of deflection. The exact hour at which such a change in the direction of travel of a depression centre takes place is difficult to determine accurately, but the data are sufficient to justify the assumption that in the present instance the time was not earlier than 7 a.m. when it may be observed the great bulk of the rain had already fallen. In the case of the other great rains referred to the change of direction was similarly close to the time when the rain was approaching its end. The question arises whether the deflection of the track in this, and perhaps in other cases, ought not to be regarded rather as the result than the cause of the rainfall. In the present state of our knowledge as to the determining causes modifying the direction of travel of low pressure areas we confine ourselves to putting the facts as we have them on record in the hope that their interpretation may thereby be facilitated.

So far as we are aware there was no self-recording rain gauge at work in any part of the area most seriously affected by the rain of June 28th, and we are entirely dependent for data as to time relations upon the casual notes which have reached us from Observers, and with regard to these some difficulty exists owing to the failure in many instances to specify whether the hour mentioned was referred to Greenwich time or Summer time. Unfortunately only a small amount of information is available as to the time when the rain storm began and ended in different parts of the area, probably owing to the fact that the great bulk of the rain occurred during the night. Observers from Street, near Glastonbury, on the west, to Salisbury, on the east, speak of showers during the forenoon of the 28th, fine weather in the afternoon, changing between 5.30 and 6 (G.M.T.) to heavy rain, which increased in intensity as the evening went on, and came to a climax between 11 p.m. on the 28th and 1 a.m. on the 29th, then slackened off, but rain continued until about noon on the 29th, the fall during the night being accompanied by north-easterly wind. The rain on the forenoon of the 28th was accompanied by thunderstorms which did damage in places, and at Bishopstrow, near Warminster, about an inch of rain fell in a local thunderstorm sometime between 2 and 4 p.m. Some thunder and lightning occurred during the long night rain, but it does not appear to have been a prominent feature and the precipitation was undoubtedly cyclonic in type and not a purely thunderstorm rain. The only figures we can rely upon to indicate the incidence of the rain in the central area are those of King's School, Bruton, where 3·63 in. out of 8·48 in., or 42 per cent. of the total, fell before 8 p.m. on the 28th, and at the village school at Stourton, where 2·50 in. out of more than 6·50 in., or less than 32 per cent., fell before 8.30 p.m. All reports agree in placing the heaviest fall of rain during the two hours from 11 p.m. on the 28th to 1 a.m. on the 29th, and it seems resaonable to assume from such scanty data as are available that the rate of fall during these two hours was approximately 1 inch per hour, or rather more, in the central area. This rate accords with that observed during the East Anglian storm of August 25th-26th, 1912, though it is, of course, far less intense than that often noted during local summer thunderstorms.

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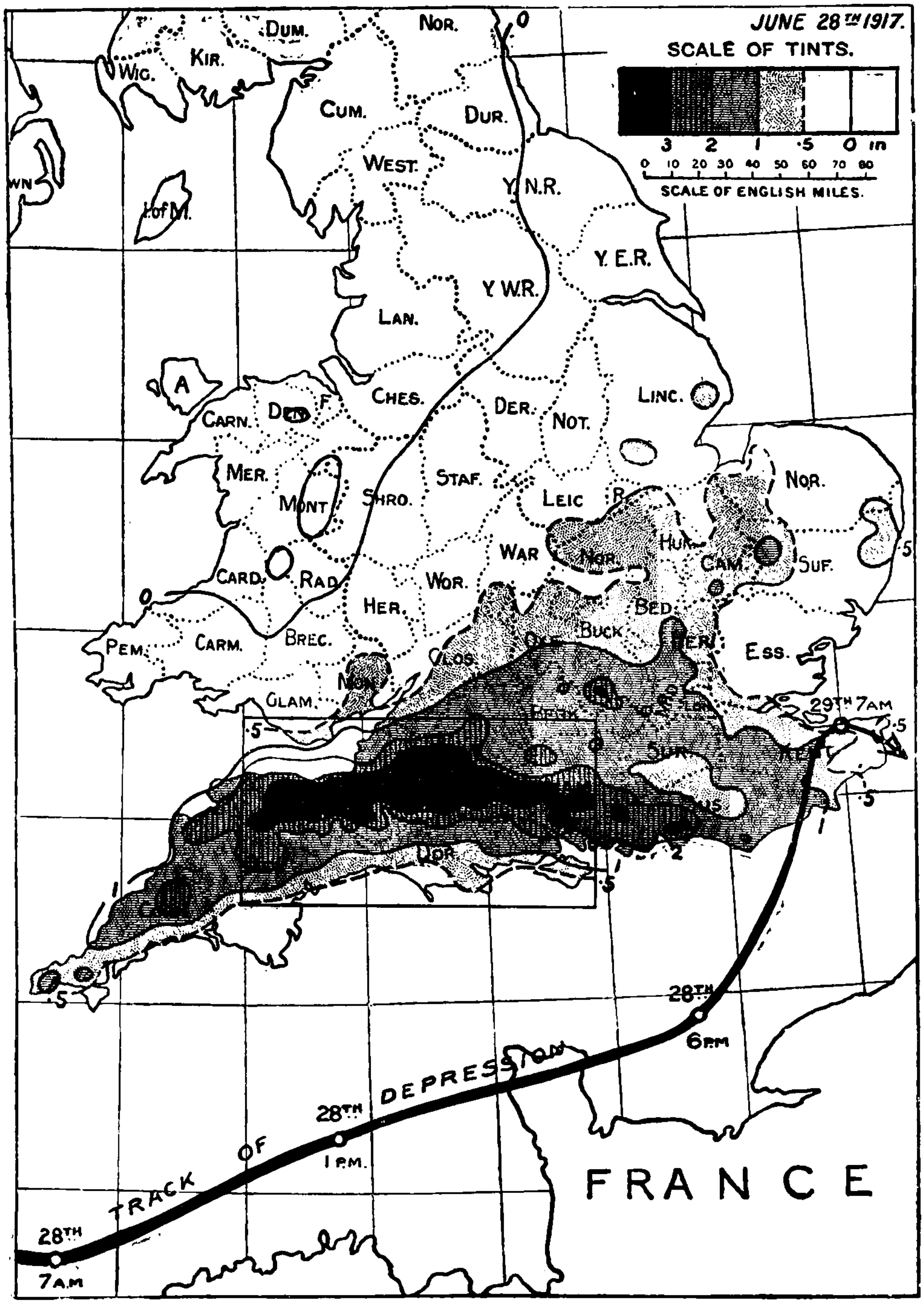
* See *British Rainfall*, 1905, p. [112]; *British Rainfall*, 1912, p. 28. *British Rainfall*, 1915, p. [75].

In order to be able to make use of the greatest possible amount of data we have thought it desirable to confine the map and statistical records strictly to the "rainfall day" ending at 9 a.m. on June 29th. As has already been mentioned rain continued locally for some hours longer, but in no place does the amount which fell after 9 a.m. appear to have been very large, amounting generally to about ·25 in., or in one or two cases to as much as ·50 in.

Apart from trivial local showers in Wales the rainfall day appears to have been rainless to the north-west of a nearly straight, and remarkably well-defined line, passing from near Cardigan to Newcastle-on-Tyne. To the south-east of this line no station failed to record some rain, but less than ·25 in. fell over an outer strip roughly 50 miles wide in the north-west, including practically the whole of south Wales and most of the western Midlands. Less than ·25 in. also appeared at one or two points along the south-coast, between the Lizard and the Isle of Wight, and on the coast of Essex. Within the limits thus defined the fall increased to ·50 in., gradually on the northern side, more abruptly on the southern,

RAINFALL OF JUNE 28TH, 1917.


JUNE 28TH 1917.
SCALE OF TINTS.
3 2 1 ·5 0 in
0 10 20 30 40 50 60 70 80
SCALE OF ENGLISH MILES.
DUM.
KIR.
WIG.
NOR.
CUM.
DUR.
WEST.
Y. N.R.
I. of M.
Y. E.R.
Y. W.R.
LAN.
A
CARN.
DEN.
F.
CHES.
DER.
NOT.
LINC.
MER.
MONT.
SHRO.
STAF.
LEIC
NOR.
HUN.
CAM.
SUF.
WAR
CARD.
RAD.
WOR.
HER.
BED.
BUCK.
HER.
ESS.
PEM.
CARM.
BREC.
GLOS.
MON.
GLAM.
BERK.
SUR.
KENT
SUS.
DOR.
29TH 7AM
28TH 6P.M
28TH 1 P.M.
28TH 7 A.M
TRACK OF DEPRESSION
FRANCE

NOTE.—*The area enclosed in a rectangle is shown in greater detail and on a larger scale as a frontispiece to this volume.*

and by a similar transition to more than 1 inch. The main 1-inch area extended from St. Agnes, in Cornwall, in a direction roughly east by north to near Canterbury. It was limited on the north by a line passing through Ilfracombe and Bristol to Hitchin, and thence south-eastward, through London, to Dungeness. On the south a strip of the coast, from 10 to 20 miles in width, extending from Land's end to the Isle of Wight, had less than 1 inch. There was also an enclosed area occupying part of Surrey and Sussex, where rather less than 1 inch fell. A few isolated patches with more than 2 inches of rain occurred in Cornwall, and in the Thames Valley, but the main 2-inch area, occupying 4,144 square miles, extended unbroken from near Hartland, in North Devon, to a point not far from Brighton. This area, which was approximately 185 miles in length and 30 in width, represents the theatre of operations within which the chief strength of the great rain storm made itself felt, and it was, roughly speaking, the western half which experienced the most remarkable conditions. In the map, on p. 25, the area with more than 3 inches of rain is shown in solid black. Apart from a tiny patch in Oxfordshire it comprises a long narrow strip stretching from South Molton to Petersfield, with two small detached areas in Sussex, the most easterly point reached being Steyning. The details of the rainfall distribution within this strip are too minute to be shown on this map, and a special coloured map on the scale of 10 miles to 1 inch, comprising the portion enclosed in the rectangular area marked on the small map, is reproduced as a frontispiece to this volume.

In studying the frontispiece attention may first be drawn to the very evident tendency for the splashes of heavy rainfall to be arranged in a linear manner, the whole approximating markedly to parallelism with the track of the depression passing up the English Channel. Thus the 4-inch strip is about 100 miles in length from west to east, including a detached portion near Salisbury, whilst its width, from north to south, rarely exceeds 10 miles. The 5-inch area, which is broken into three portions, exhibits a similar characteristic. The 5-inch line is amply supported by observations on the greater part of its length, but there is a little uncertainty as to the fall on the hills between Watchet and Wiveliscombe, where, however, it seems probable that more than 5 inches fell. At the eastern end of the western 5-inch area, two excellent records make it clear that more than 7 inches fell over part of the Quantocks, and we have full confidence in the record of 8·39 in. at Aisholt, as indicating a fall of more than 8 inches in the centre of this wet splash. A rather larger 5-inch area extended from the east of Bridgwater to a point rather beyond Mere, its outline being for the most part indicated in a satisfactory manner by numerous records. It is possible but not certain that more than 6 inches fell to the west of Street, but we have not thought it advisable to take account of this on the map. To the east of Street a strip about 19 miles long and from 2 to 5 miles wide certainly had more than 6 inches. In the centre, relying on the indications of four good records we have sketched in the probable run of lines of 7, 8 and 9 inches, culminating in a rainfall of 9·56 in., at Sexey's School, Bruton. This enormous reading is fortunately supported in an admirable manner by one of 8·48 in., at King's School, Bruton, and by another of 9 inches, made in a less satisfactory manner at South Brewham. It is unfortunate that, although a rain gauge was kept at a third school in Bruton the contents were accidentally spilt on the morning of June 29th. In view of the unprecedented nature of the amounts recorded opportunity was taken by Dr. Mill and Mr. Salter, in company with Rev. H. A. Boys, founder of the Mid-Wessex Rainfall Association, Mr. W. S. Clark, one of the original Observers of *English Rainfall, 1860,* and Mr. J. E. Clark, to inspect a number of rain gauges in the immediate district. The stations visited were in nearly every case found to be perfectly satisfactory, and it is only necessary here to refer in detail to one, that at Sexey's School, Bruton, where the largest measurement was made, and to which most interest naturally attaches. The actual reading was made by a school-boy named Mann, under the supervision of Captain S. W. Brown, the science master. The rain gauge, which was presented to the school by Dr. Mill ten years ago, is of the standard Snowdon pattern, with a deep funnel, preventing outsplashing even in the heaviest shower. The top of the funnel stands at the usual height of 1 foot above grass. Several young trees near the gauge had grown since the instrument was first placed in its position ten years ago. Of these trees the nearest were (i.) 15 feet high and 12 feet distant to the N.E.; (ii.) 20 feet high and 18 feet distant to the N.; (iii.) 18 feet high and 15 feet distant to the N.W.; (iv.) 20 feet high and 18 feet distant to the S. The shelter of these trees would undoubtedly prevent the full amount of rain from reaching the gauge during light winds; but it is possible that with stronger winds drops blown from leaves might enter the gauge and cause it to register too much. In conditions so abnormal as those of June 28th it is impossible that any gauge could be relied upon to catch exactly the proper amount of rain, and it appears likely that the shelter of the trees would keep back at least as much as might be added by the drops blown in by the wind from the leaves. When the reading was taken at 9 a.m. on June 29th, it was found that the glass bottle had been filled and had overflowed into the inner can, but the outer can was sound and retained the water. The school boy Mann had kindly come to meet us and he filled up the gauge to the level at which he found it on the morning of June 29th, which he had noted was exactly up to the brass ring of the handle of the inner can. He then proceeded to measure the water as on June 29th, first from the bottle, then by dipping with a cup from the can. The measurement gave 9·42 in., a discrepancy of half an inch from the original reading of 9·84 in. It was noticed that a little water was lost in pouring from the cup into the measuring glass, and as Mann was positive as to the level at which the water stood in the rain gauge we filled it up again to the mark and Mr. Salter measured the exact depth of water in the outer can, after removing the bottle and inner can, and also the internal diameter of the outer can. A simple calculation gave the quantity as **9·56** in., which we adopted as the correct amount.

We have dealt somewhat fully with the detail of the individual reading at Sexey's School, Bruton, because in putting it on record as the largest daily rainfall ever recorded in the British Isles we are anxious to avoid any risk of uncertainty, and we may add that whether the reading can or cannot be accepted as accurate within one or two hundredths of an inch we are convinced that during the 24 hours ending at 9 a.m. on June 29th, the rainfall at the spot must have been greater than 9 inches.

From the map as drawn we are able to compute the volume of water which fell over the south of England during the rainfall day, and the following table summarizes the measurements :—

	Area. sq. miles.	General Rainfall. inches.	Volume of Rain. sq. mi. × inches.
More than 9 inches	2	9·20	18
8—9 inches	11	8·44	93
7—8 ,, ...	16	7·50	120
6—7 ,, ...	56	6·47	362
5—6 ,, ...	203	5·45	1106
4—5 ,, ...	521	4·46	2325
3—4 ,, ...	1122	3·39	3852
2—3 ,, ...	2488	2·48	6075
1—2 ,, ...	7714	1·46	11286
·50—1 ,, ...	8099	·73	5940
·25—·50 ,, ...	9068	·36	3241
Less than ·25 inches	14723	·13	1842
Total	44023		36260

The general rainfall of the whole area with rain was ·82 in., and of the 12,133 square miles with more than 1 inch it was 2·09 in. The total volume of rain which fell over England and Wales was 525,022 million gallons, or 2,343,846,400 tons.

It is a matter of interest to place these statistics alongside those calculated in a similar manner for previous widespread heavy rainfalls. For this purpose the most convenient data are the areas exceeding 4 inches in each case. It should be noted that in some cases the measurements for previous rains refer to more than one day, whereas those for June 28th are confined to the one rainfall day, but as mapped the instances relate to individual rain showers, whether of one or more days' duration, and the fact that the present fall occurred practically all during one rainfall day makes it as nearly as possible comparable.

Instances of Widespread Heavy Rains.

	Area over 4 inches. sq. mi.	General Rainfall. in.	Volume of Rainfall. sq. mi. x in.	Volume of Rainfall. million gals.
Aug. 24-25, 1891, Lake District	714	5·63	4,022	58,241
Aug. 24-26, 1905, Eastern Ireland	1,160	4·76	5,520	79,930
Oct. 26-28, 1909, South-East England	1,004	4·69	4,708	68,16
Aug. 25-26, 1912, East Anglia	1,939	5·49	10,645	154,133
May 7-8th, 1914, Inverness District	271	4·30	1,164	16,854
Sept. 25-26, 1915, Inverness District	821	5·05	4,142	59,974
June 28th, 1917, Somerset and Dorset	809	4·97	4,024	58,265

Confining ourselves strictly to the rainfall day the following short list comprises all known instances of daily rainfalls reaching or exceeding 7 inches for the British Isles. Records of decreasing completeness extend backwards to 1865.*

Date.	Station.	Amount in.
June 28, 1917	Bruton(Sexey'sSch.)	9·56
„ „	„ (King's Sch.)	8·48
„ „	Aisholt	8·39
Oct. 11 1916	Kinlochquoich	8·20
Nov. 12,1897	Seathwaite	8·03
June 28,1917	Pitcombe Vicarage	7·90
Feb. 6, 1894	Ben Nevis Obsy.	7·74
Aug. 26 1912	Brundall	7·31
Oct. 2, 1890	Ben Nevis Obsy.	7·29
Aug. 26, 1912	Sprowston	7·20
Sep. 25, 1915	Dalcross Castle	7·06
June 28, 1917	Cothelstone House	7·05
Oct. 29, 1911	Seathwaite	7·00

The rainfall of June 28th, 1917,, provides five out of the thirteen records included in the list, three of which surpass any previously put on record. Of the 13 records, 5 belong to the category of winter rains of the normally rainy regions, and the remaining 8 entries were all cyclonic rains.

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* A reputed rainfall of 9·50 in. at Scarborough on August 9th, 1857, has often been quoted, and we have made efforts to obtain corroboration of it, but we have been unable to obtain any particulars, and it is impossible to trust the figure.

It is beside the purpose of the present description to enter into details of the somewhat extensive, though by no means very remarkable, flooding which occurred as a consequence of the rainfall. A glance at the map shows that the centre of highest fall lay close to the headwaters of several rivers, and the great bulk of the precipitation was thus split up into their several channels and drained away in diverse directions. But for this circumstance it is to be feared that great loss of life might have resulted ; but, as a matter of fact, we have heard of no fatality in connection with the storm. The configuration of the upper valleys of the rivers Stour and Brue led to some peculiar effects which are worthy of mention. In the case of the Stour practically the whole of the elevated portion of the upper valley received more than 6 inches of rain, and had a general fall of over 7 inches. The stream here passes through thickly wooded gorges and its course is marked by a series of artificial lakes. The lowest of these lakes which we were allowed to inspect by the kindness of Sir Henry Hoare, burst the earthen dam constructed to retain the water and allowed the whole contents of the lake to pass down the stream. So great, however, was the volume of water passing down that by a rough calculation the 5,000,000 cubic feet which it contained amounted to less than one-eighth of the quantity which fell over the area draining to the dam. Floods of a serious nature occurred at Gillingham, where the Stour flood was augmented by the spate of several tributaries, but the flood marks at the Town Mills indicate that several previous floods have been higher.

The valley of the Brue which probably carried off a larger proportion of the total fall than any other, is peculiar in narrowing to a bottle-neck in the town of Bruton, an effect which is exaggerated by the design of the town bridge, which confines the river to an extremely narrow channel, In these circumstances the swollen stream broke all bounds and considerable structural damage was caused in the low-lying part of the town. In the course of the lower Brue, where it opens out into a broad and relatively flat valley the great volume of water flowing down from the head-waters added to the 7 inch fall, which extended some 12 miles westward from Bruton produced widespread flooding and much damage was done to the growing crops for many miles.

A complete list of the measurements at stations where 2·50 in. or more fell on June 28th is to be found in the section on Heavy Falls on Rainfall days, pp. [45-47], and a list of the falls above 4 in. is also given on pp. [39-40].

THE SNOWFALL OF 1917.

By L. C. W. Bonacina.

Like its predecessor the year 1917 was prominent for snowfall, but the distribution both monthly and to a considerable extent also regionally in the two cases was markedly different. The somewhat heavy falls of December, 1916, proved the prelude of a series of snowy months in the early part of 1917. In 1917 the snowfall affected Ireland rather than Great Britain, the reverse having been the case in 1916. The closing quarter of 1917, October to December, again showed a tendency for heavy snowfall locally, but it is the first third of the year, January to April, which claims special attention. The outstanding months were January and April, and the outstanding division of the kingdom in each case was Ireland.

This article only professes to give a general review based on notes of the Rainfall Observers, the Official Weather Reports and the newspaper press, of the distribution of snow month by month.

January :—This was a month of relentless cold, with stinging east winds, and the snowfall was on the whole more noticeable for the large number of days on which it occurred than for quantity. But there were at times some severe storms. About the middle of the month much the same conditions prevailed in the Peak of Derbyshire as in March, 1916, and many pictures of remarkable snowdrifts in that district were published in the newspapers. Much snow fell also on Dartmoor, as is usual in severe seasons, but probably not so much as in 1916. On the 25th and 26th the more southern and western parts of Ireland were visited by a snowstorm of paralyzing severity, railway traffic over a large area being completely stopped. In the neighbourhood of Carrick-on-Suir the average depth of snow was about 1 foot, with drifts 10 feet and over. At places in Mayo depths of over 2 feet were reported, with drifts of 15 feet.

February :—In this month the continued cold of January strengthened into a frost approaching in intensity that of the corresponding month of 1895, with temperatures below 0°F. along the Thames Valley and elsewhere. But, as in 1895, February was a dry month, and the amount of fresh snow which fell was not great. The great Irish snowfall of January 25th and 26th lay persistently on the ground till February 18th. Over much of southern England the more intense phase of the frost was ushered in on the 4th by a snowfall of 3 or 4 inches, which was heavier in the London district than any of the numerous falls in January.

March :—Around the 10th the whole country experienced a rather intense if brief renewal of the frost that had given way in the middle of February, and on this occasion the greatest cold prevailed in Scotland, where the temperature in places fell below 0°F. The snowfall about this time was extremely heavy in the Grampians, and it was reported in the newspapers that attempts to keep the Highland line open were next to futile. On the 7th the snow at Balmoral was lying 20 inches deep. The first brief spurt of spring warmth occurred round the 18th, relapsing almost immediately into wintry conditions, and during the last ten days of the month there were constant snow showers developing by the 31st into the great snowstorms of the early days of April.

April :—This was the most remarkable of a long series of inclement months, many parts of the country being visited by tremendous snowstorms, accompanied by frosts of midwinter intensity. The snowfall was occasioned by the passage of barometric depressions associated with a flow of polar air from a north-westerly direction, and was most intense during the first few days of the month, although there was a second spell about the 10th, which continued till well past the middle of the month. At the beginning of April practically all parts of the British Isles experienced falls approaching or exceeding a foot in depth, and in the hilly districts the huge drifts resulted in a very serious loss of sheep, especially in the Border Country. But it was in Ireland that the conditions were most severe, and in that country the blizzard at the beginning of April appears to have been even worse than that of January 25th and 26th, especially in the west and south, which affords another striking illustration of how similar weather conditions sometimes tend to remain persistent over a particular region. The Irish Observers were almost unanimous in reporting that such depths of snow had never been seen before. At Fethard-on-Sea, Wexford, the storm was described as the "worst for 50 years," and the depth of snow estimated at anything between 1 and 4 feet. At Blacksod it was reported that drifts had attained a depth of 10 feet within an hour and a half of the commencement of the storm on the 1st. In the counties of Tipperary and Clare many places were cut off from the outside world, and lives were lost. A vivid insight into the extreme rigour of the season in south-central Ireland may be obtained from Col. Bentley's article published in *Symons's Meteorological Magazine* for May, 1917 (Vol. 52, p. 43). Although Ireland from its westerly situation suffers, on the average of years, less from snow than Great Britain, yet on occasions of extremely low temperature the high degree of humidity prevailing over the island leads to snowfalls of extreme severity.

Soon after the middle of April the frosts and snow entirely disappeared, and the extremely cold April gave place to a very hot May, during which there was a marked absence of the somewhat heavy snowfalls that are still liable to visit the more elevated parts of the country in early summer.

October :—The entry of October was marked by some heavy falls of snow in Scotland. Another spell of unusually severe weather prevailed all over the country during the last week, and on the morning of October 29th the snow at Hawes, in the Pennines, lay a foot deep. It is interesting to note that the two months of transitional temperature between winter and summer were, in 1917, both characterized by an unusual amount of snow.

November :—The snowfall of November was less than usual owing to the generally mild character of the month, but some fairly heavy falls occurred about the 25th in the northern parts of the kingdom.

December :—Although there was no outstanding snowstorm in this month, the general snowfall was heavy. In the middle of the month sleighing in some northern towns like Durham was reported in the newspapers to have been generally resorted to, and even in the south long delays to traffic were occasioned by drifts in Kent and other counties.

THE DIMINUTION OF RAINFALL WITH ELEVATION.

By W. C. NASH.

MEASUREMENTS of the rainfall at various heights above the surface of the ground have now been in progress at the Royal Observatory, Greenwich, for a considerable number of years. These elevation gauges sprang into existence somewhat irregularly, rather than as the result of a systematic scheme of observation. At the time of the foundation of the newly constituted Magnetic Observatory in 1841, the Astronomer Royal connected with that department a limited scheme of meteorological work to be carried out at regular two-hourly intervals by the magnetical staff, in conjunction with their own special service, a practice continued until the end of the year 1847, when the introduction of photographic self-recording methods considerably curtailed the system of eye-observations. The meteorological work embraced, in addition, the continuous record of the direction and pressure of the wind by the recently invented anemometer of Osler, which was mounted on the roof of the principal building; the plan of Mr. Osler also involving the registration of rainfall on the same sheet as the wind record. The rain gauge attached to this instrument (a large rectangular trough exposing a surface of 200 square inches to the rainfall) was mounted at the height of 50 feet above the ground, and with another gauge already in position on the roof of the Library, at the height of 22 feet, formed the nucleus of the elevated gauges; the necessary reference to the ground zero being completed by the planting of a ground gauge at the same time. But as it was found that the system of tumbling buckets adopted by Osler for the rainfall record was sometimes liable to derangement, another gauge for daily measurement was mounted by the side of the Osler gauge in the year 1854 to serve as a check upon the automatic record; and in the year 1861 two other gauges at the intermediate heights of 10 feet and 38 feet were added, thus completing the establishment of elevated gauges. From many causes, principally on account of the extension of the astronomical buildings, the record at the height of 22 feet was invalidated to a certain extent in the earlier years, and it has therefore been considered expedient to limit this enquiry to the records obtained after the year 1871.

In Table I. a summary of the annual rainfall at each elevation is given, followed in Table II. by mean values for each decade 1871-1880, etc.

TABLE I.—*Annual Rainfall at different elevations, Royal Observatory, Greenwich, 1871-1910.*

Years.	Number of rain days.	On Ground.	10 feet high.	22 feet high.	38 feet high.	50 feet high.
		in.	*in.*	*in.*	*in.*	*in.*
1871...	162	22·305	21·752	18·889	18·196	15·625
1872...	197	30·020	28·785	25·202	23·671	19·979
1873...	144	23·363	22·802	20·880	19·285	16·805
1874...	139	19·945	19·634	17·552	16·365	13·563
1875...	152	27·974	27·228	25·184	22·808	20·034
1876...	167	24·095	23·523	21·782	19·490	16·989
1877...	186	27·276	26·132	24·269	21·847	18·452
1878...	167	28·977	27·939	27·606	24·136	1·513
1879...	185	31·362	30·358	28·104	25·292	21·492
1880...	160	29·682	29·087	26·703	23·328	18·948
1881...	156	25·725	24·391	22·132	20·133	16·634
1882...	180	25·181	24·193	21·784	19·147	15·576
1883...	173	21·909	21·004	19·075	17·131	13·607
1884...	150	18·047	17·521	16·051	13·837	10·821
1885...	166	24·002	23·547	21·947	19·791	16·634
1886...	163	24·212	23·407	21·342	18·793	14·792
1887...	143	19·859	19·708	18·646	15·649	12·349
1888...	165	27·505	27·374	25·826	22·972	19·556
1889...	159	23·278	23·385	21·726	19·018	15·512
1890...	162	21·860	21·555	20·037	17·538	13·378
1891...	178	25·038	24·540	22·585	20·001	15·202
1892...	170	22·313	22·352	20·839	18·115	13·687
1893...	154	20·118	20·006	18·746	16·105	12·614
1894...	192	26·891	26·435	24·860	22·488	17·833
1895...	158	19·725	19·220	17·712	15·938	12·712
1896...	161	22·420	21·844	20·084	17·745	13·468
1897...	169	22·126	21·353	19·614	17·963	14·651
1898...	142	18·850	18·404	17·008	14·897	11·186
1899...	141	22·332	21·695	19·537	17·473	13·739
1900...	165	22·315	21·536	19·573	16·999	12·921
1901...	123	20·293	19·625	18·123	15·713	13·018
1902...	159	19·337	19·185	17·939	15·445	12·024
1903...	179	35·543	35·153	32·999	28·748	23·687
1904...	153	20·663	20·426	18·896	16·858	12·725
1905...	161	23·024	22·866	20·621	18·421	13·248
1906...	161	24·737	23·696	21·372	18·659	13·523
1907...	163	22·250	21·472	19·398	17·799	14·083
1908...	150	23·784	22·782	20·841	19·087	15·533
1909...	186	25·706	25·026	22·922	20·333	16·097
1910...	185	28·064	27·272	24·704	21·651	17·690
Average	163·1	24·052	23·455	21·578	19·222	15·547

TABLE III.—*Average Monthly Rainfall at different elevations (see Fig. 1).*

Months.	Average number of rain days.	Average Monthly Rainfall. On Ground. *in.*	10 feet high. *in.*	22 feet high. *in.*	38 feet high. *in.*	50 feet high. *in.*
January ..	14·5	1·738	1·636	1·369	1·243	·915
February .	13·7	1·535	1·464	1·284	1·135	·849
March	13·9	1·542	1·477	1·269	1·088	·779
April	12·7	1·655	1·618	1·468	1·291	1·028
May	12·4	1·730	1·699	1·603	1·430	1·161
June	11·8	2·211	2·186	2·105	1·883	1·606
July	13·4	2·410	2·367	2·260	2·049	1·737
August ...	13·1	2·298	2·272	2·175	1·982	1·692
September	12·1	1·981	1·968	1·879	1·673	1·404
October ..	15·3	2·672	2·650	2·476	2·187	1·820
November.	14·9	2·262	2·198	1·989	1·755	1·395
December	15·3	2·018	1·920	1·701	1·506	1·161
Year	163·1	24·052	23·455	21·578	19·222	15·547
Ratios ...	..	100·0	97·5	89·7	79·7	64·6

Mean Monthly Rainfall at different Elevations. Greenwich, 1871-1910.

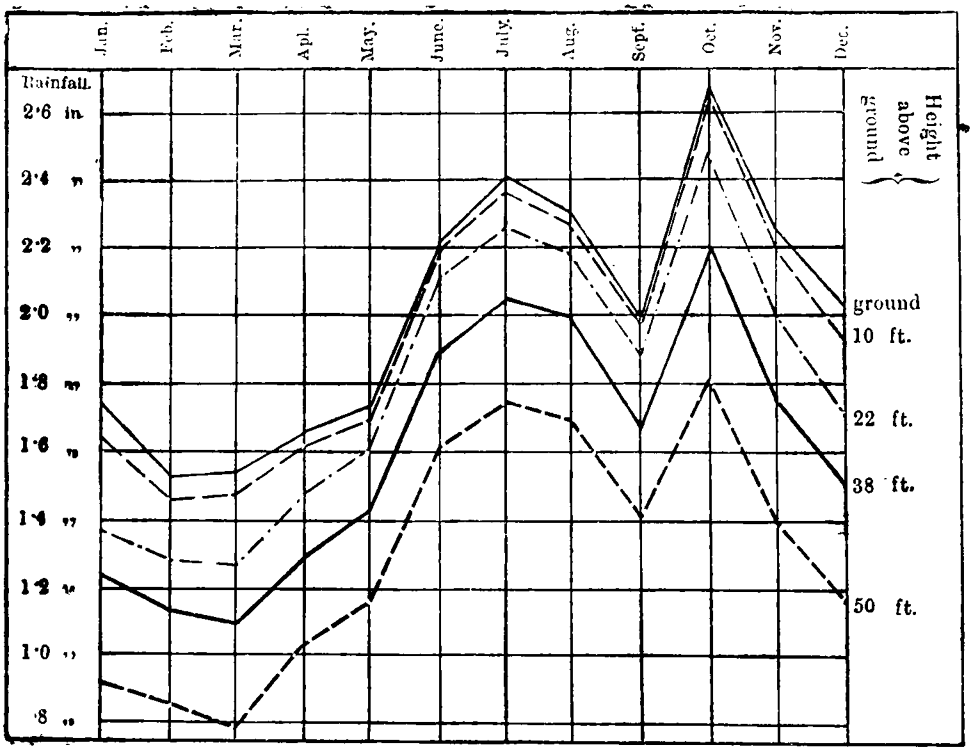


Fig. 1.

As it is conceivable that there may probably be a sensible difference in the relation between the average rainfalls for the year, and those in years of minimum and maximum rainfalls, a selection has been made of the falls

TABLE II.—*Average Rainfall at different elevations for each decade.*

Decades.	Mean Rainfall.					Ratios : Ground = 100·0.			
	On Ground.	10 feet high.	22 feet high.	38 feet high.	50 feet high.	10 feet high.	22 feet high.	38 feet high.	50 feet high.
	in.	*in.*	*in.*	*in.*	*in.*	%	%	%	%
1871-1880..	26·500	25·724	23·617	21·442	18·340	97·1	89·1	80·9	69·2
1881-1890..	23·158	22·608	20·857	18·401	14·886	97·6	90·6	79·5	64·3
1891-1900..	22·213	21·738	20·056	17·772	13·801	97·9	90·3	80·0	62·1
1901-1910..	24·340	23·750	21·781	19·271	15·163	97·6	89·5	79·2	62·3

in such years, in order to test this question. The adopted values are shown in Table IV., for twelve selected years in each class.

TABLE IV.—*Selected Dry and Wet Years, 1871-1910.*

Years of Minimum Rainfall.			Years of Maximum Rainfall.		
Years.	Number of rain days.	Annual Rainfall.	Years.	Number of rain days.	Annual Rainfall.
		in.			*in.*
1874..	139	19·945	1872..	197	30·020
1883..	173	21·909	1875..	152	27·974
1884..	150	18·047	1877..	186	27·276
1887..	143	19·859	1878..	167	28·977
1890..	162	21·860	1879..	185	31·362
1893..	154	20·118	1880..	160	29·682
1895..	158	19·725	1881..	156	25·725
1897..	169	22·126	1888..	165	27·505
1898..	142	18·850	1894..	192	26·891
1901..	123	20·293	1903..	179	35·543
1902..	159	19·337	1909..	186	25·706
1904..	153	20·663	1910..	185	28·064
Means	152·1	20·228	..	175·8	28·727

Mean Monthly Rainfall at different Elevations, Greenwich, 1871-1910.
Percentage of Ground Gauge Values.

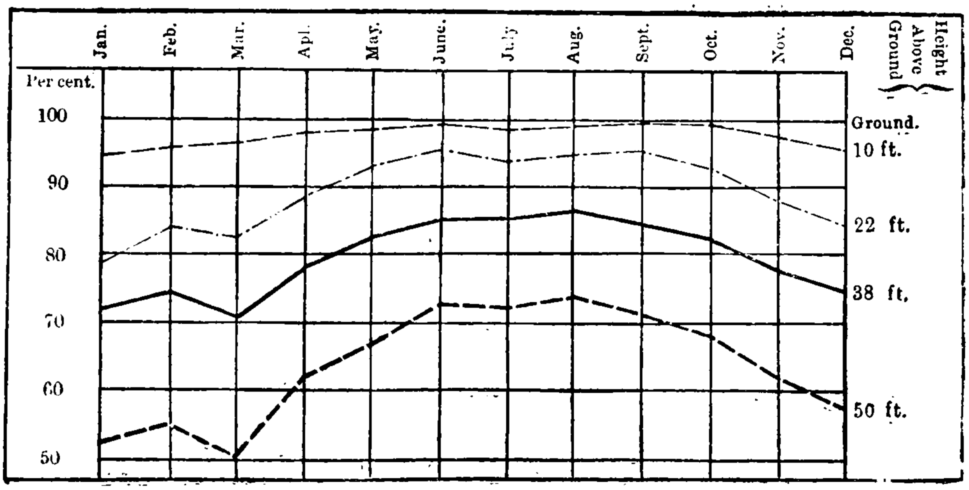


Fig. 2.

The deduced mean monthly values of the rainfall at each elevation, for these selected periods of minimum and maximum rainfall, are shown in Tables V. and VI., and the relation of the falls at the different elevations is indicated by the percentages of the ground values shown in Table VII. The variations of these ratios from month to month are shown in Fig. 2.

TABLE V.—*Average Monthly Rainfall at different elevations, in Twelve Dry Years.*

Months.	Mean number of rain days.	Mean Monthly Rainfall.				
		On the Ground. *in.*	10 feet high. *in.*	22 feet. high. *in.*	38 feet high. *in.*	50 feet high. *in.*
January ..	14·5	1·413	1·350	1·141	1·001	·712
February .	12·1	1·467	1·413	1·243	1·091	·855
March	13·3	1·452	1·404	1·217	·983	·697
April	11·3	1·235	1·205	1·071	·964	·721
May	12·3	1·506	1·484	1·403	1·229	·975
June	10·2	1·662	1·660	1·603	1·446	1·185
July	12·8	2·165	2·126	2·060	1·861	1·563
August ...	12·3	1·751	1·739	1·653	1·527	1·250
September	11·0	1·713	1·703	1·642	1·441	1·189
October ..	13·0	2·041	2·022	1·930	1·684	1·384
November.	14·3	1·895	1·859	1·694	1·481	1·147
December	14·9	1·928	1·838	1·626	1·412	1·043
Year	152·1	20·228	19·803	18·283	16·120	12·721
Ratios ...	..	100·0	97·9	90·4	79·7	62·8

TABLE VI.—*Average Monthly Rainfall at different elevations, in Twelve Wet Years.*

Months.	Mean number of rain days.	Mean Monthly Rainfall.				
		On the Ground. *in.*	10 feet high. *in.*	22 feet high. *in.*	38 feet high. *in.*	50 feet high. *in.*
January ..	14·8	2·079	1·927	1·661	1·528	1·237
February .	15·4	1·681	1·604	1·419	1·261	·908
March	13·6	1·575	1·491	1·289	1·119	·840
April	13·8	2·056	2·009	1·917	1·664	1·414
May	13·0	1·940	1·891	1·789	1·587	1·300
June	13·7	2·900	2·870	2·757	2·509	2·240
July	17·3	3·502	3·420	3·271	2·954	2·556
August ..	14·5	3·262	3·228	3·116	2·846	2·551
September	11·9	1·876	1·864	1·757	1·585	1·351
October ..	15·8	3·220	3·192	2·950	2·603	2·208
November.	16·4	2·611	2·496	2·220	1·933	1·494
December	15·5	2·025	1·940	1·730	1·528	1·227
Year	175·8	28·727	27·932	25·876	23·117	19·326
Ratios ...	..	100·0	97·2	90·1	80·5	67·3

TABLE VII.—*Ratios of Monthly Rainfalls at different elevations to Standard Ground Values.*

Ratios of Monthly Rainfall at different elevations, to Standard Ground Values. (Ground = 100·0).

Period.	Height above Ground.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Forty years 1871-1910	10 ft.	94·1	95·4	95·8	97·8	98·2	98·9	98·2	98·9	99·3	99·2	97·2	95·1	97·5
	22 ft.	78·8	83·6	82·3	88·7	92·7	95·2	93·8	94·6	94·9	92·7	87·9	84·3	89·7
	38 ft.	71·5	73·9	70·6	78·0	82·7	85·2	85·0	86·2	84·5	81·8	77·6	74·6	79·7
	50 ft.	52·6	55·3	50·5	62·1	67·1	72·6	72·1	73·6	70·9	68·1	61·7	57·5	64·6
		%	%	%	%	%	%	%	%	%	%	%	%	%
Twelve dry years	10 ft.	95·5	96·3	96·7	97·6	98·5	99·9	98·2	99·3	99·4	99·1	98·1	95·3	97·9
	22 ft.	86·8	84·8	83·8	86·7	93·0	96·4	95·1	94·4	95·8	94·5	89·4	84·3	90·4
	38 ft.	70·9	75·0	67·7	78·0	81·6	87·0	86·0	87·2	84·1	82·5	78·1	76·8	79·7
	50 ft.	50·4	58·3	48·0	58·4	64·7	71·3	72·2	71·4	69·4	67·8	60·5	54·1	62·8
		%	%	%	%	%	%	%	%	%	%	%	%	%
Twelve wet years	10 ft.	92·7	95·4	94·7	97·7	97·5	99·0	97·7	99·0	99·4	99·1	95·6	95·8	97·2
	22 ft.	79·9	84·3	81·8	93·2	92·2	95·1	93·4	95·5	93·7	91·4	85·0	85·4	90·1
	38 ft.	73·5	75·0	71·0	80·9	81·8	86·5	84·4	87·2	84·5	80·9	74·0	75·5	80·5
	50 ft.	59·5	54·0	53·3	68·8	67·0	77·2	73·0	78·2	72·0	68·6	57·2	60·6	67·3

These values are shown in curves in Fig. 2 on p. 37.

TABLE VIII.—*Mean Rainfall per Rain Day at different elevations.*

Period.	Height of Gauge.	Mean fall per rain day.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
Forty years 1871-1910	ground	·120	·112	·111	·130	·140	·187	·180	·175	·164	·175	·152	·132	·148
	10 ft.	·113	·107	·106	·127	·137	·185	·177	·173	·163	·173	·148	·125	·144
	22 ft.	·094	·094	·091	·116	·129	·178	·168	·166	·155	·162	·133	·111	·132
	38 ft.	·086	·083	·078	·102	·115	·159	·153	·151	·138	·143	·118	·098	·118
	50 ft.	·063	·062	·056	·081	·094	·136	·130	·129	·116	·119	·094	·076	·095
		in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
Twelve dry years	ground	·097	·121	·109	·109	·122	·163	·169	·142	·156	·157	·133	·129	·133
	10 ft.	·095	·117	·106	·107	·121	·163	·166	·141	·155	·155	·130	·123	.130
	22 ft.	·079	·103	·091	·095	·114	·157	·161	·134	·149	·148	·118	·109	·120
	38 ft.	·069	·090	·074	·085	·100	·142	·145	·124	·131	·130	·104	·095	·106
	50 ft.	·049	·071	·052	·064	·079	·116	·122	·102	·108	·106	·080	·070	·084
		in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
Twelve wet years	ground	·140	·109	·116	·149	·149	·212	·202	·225	·158	·204	·159	·131	·163
	10 ft.	·130	·104	·110	·146	·145	·209	·198	·222	·157	·202	·152	·125	·159
	22 ft.	·112	·092	·095	·139	·138	·201	·189	·215	·148	·187	·135	·111	·147
	38 ft.	·103	·082	·082	·121	·122	·183	·171	·196	·133	·165	·118	·099	·131
	50 ft.	·084	·059	·062	·102	·100	·163	·148	·176	·114	·140	·091	·079	·110

THE STAFF OF OBSERVERS.

We are happy to find that the number of complete rainfall returns received for the year 1917 is larger than the experience of 1916 had permitted us to hope. There has, indeed, been a falling off, the total number in Part III. being 107 less than in the previous volume. The shrinkage in 1916 was 220, and in 1915 it was 41. We venture to hope that the interpretation to be placed on these figures is that the war has already had its maximum effect and that the normal conditions of steady growth will soon be re-established. It has not been practicable to ascertain which of the records that have failed to come in are terminated, and which are only imperfect or delayed, so we print the comparative statement since 1906 for the second time with only the columns of total gain and total loss brought to date.

Year.	Total Gain.	Returned.	Real Gain.	Total Loss.	Temporary.	Real Loss.	Net Real Gain.
1906.........	400	58	342	237	40	197	145
1907.........	375	49	326	289	81	208	118
1908.........	444	62	382	251	64	187	195
1909.........	426	89	337	290	87	203	134
1910.........	490	81	409	292	73	219	190
1911	502	99	403	304	94	210	193
1912.........	498	81	417	300	120	180	237
1913.........	456	58	348	308	140	168	180
1914.........	432	77	355	349	157	191	164
1915.........	433	89	344	474	183	291	53
1916.........	290	...	...	510	...	...	...
1917.........	288	...	...	395	...	...	...

It is interesting to note the gains and losses for each of the constituent parts of the United Kingdom in 1917, and the long list of losses and gains in the counties, which follows, may be summed up thus :—

1917 compared with 1916.	Total Gain.	Total Loss.	Difference.	Per Cent Change in Year.
England......	192	312	—120	—3·2
Wales..	29	23	+ 6	+1·4
Scotland.....	49	43	+ 6	+0·8
Ireland	18	17	+ 1	+0·4
British Isles	288	395	—107	—2·1

It thus appears that the number of rainfall records was actually larger in 1917 than in 1916 in Wales, Scotland and Ireland, while in England the net loss was 120, as compared with 171 in 1916.

The percentage figures show how very slightly the number of records has declined when account is taken of the total number received, which was well over 5,000 for the British Isles. Space does not permit more than a few general remarks on the Table of losses and gains in the counties.

Number of complete rainfall records published in the volumes of British Rainfall for the undermentioned years.

Years.	England.	Wales.	Scotland.	Ireland.	British Isles.	Change from previous years.	No. of Stations per 100 sq. mi.
1861	333	9	109	20	471	+ 47	0·4
1871	1038	88	311	67	1504	+ 5	1·2
1881	1548	131	313	153	2145	+ 41	1·8
1891	2091	168	359	181	2799	+ 23	2·3
1901	2616	253	442	195	3506	+ 13	2·9
1911	3705	397	701	271	5074	+198	4·2
1912	3834	429	732	277	5272	+198	4·4
1913	3902	440	749	279	5370	+ 98	4·4
1914	3962	450	753	288	5453	+ 83	4·5
1915	3882	448	794	288	5412	— 41	4·5
1916	3711	440	772	269	5192	—220	4·3
1917	3591	446	778	270	5085	—107	4·2
Difference from 1916—	—120	+6	+6	+1	—107	...	0·1

England showed no change of number in 6 counties and an increase in the number of records in 7, viz., Northampton, Norfolk, North Devon, Hereford, Cheshire, North Lancashire and the East Riding of Yorkshire. The increases were certainly small, the best being 3, in the case of Cheshire. The net losses which occurred in the other counties were rarely numerous, in fact they exceeded 5 only in Surrey, Kent, Sussex, Essex and South Devon, all counties with well over 100 stations. The residential counties surrounding London are at all times subject to considerable variation, the losses of one year being often more than counterbalanced by the gains of the next. Leaving Sussex out of account for this reason, the only serious falling off is that which occurred in South Devon, where 15 records disappeared and only 7 new records came in their place.

Wales showed a decrease only in four counties, and a satisfactory improvement in several, so that the total has almost come back to its 1914 value.

Scotland is also returning to its high-water mark; but Linlithgow, Ayr and Stirling have not shared in this progress, these counties having lost 4 or 5 records each, with no new ones to come in. Midlothian and Perthshire, on the other hand, have lost none and gained 1 each. On the whole the distribution over Scotland has improved.

Ireland, always the most stable element of the United Kingdom in rainfall matters, stands where it did last year, the losses and gains practically balancing.

In the lists the figures following the name of each county indicate the numbers of records lost and gained, the total number appearing in *British Rainfall, 1917*, and in heavy type the number of records per 100 square miles of area. The letter *a* stands for the number printed in 1916. In the County of London, for example, $a-5+2=74$ **63** means that 5 of the records printed in 1916 are not available in 1917, whilst 2 new records appear, making the total number 74, or 63 per 100 square miles of area within the county.

ENGLAND.

London	$a-5+2=$	74	**63**
Surrey	$a-28+15=$	211	**29**
Kent	$a-17+10=$	158	**10**
Sussex	$a-22+2=$	146	**10**
Hampshire	$a-13+11=$	156	**10**
Berkshire	$a-6+3=$	59	**8**
Middlesex	$a-7+2=$	58	**25**
Hertfordshire	$a-5+0=$	79	**12**
Buckingham ...	$a-5+3=$	42	**6**
Oxfordshire ...	$a-7+2=$	63	**8**
Northampton	$a-3+5=$	71	**7**
Huntingdon ...	$a-1+0=$	8	**2·2**
Bedfordshire...	$a-2+1=$	24	**5**
Cambridge	$a-6+2=$	43	**5**
Essex	$a-10+1=$	111	**7**
Suffolk	$a-8+5=$	55	**4**
Norfolk	$a-7+8=$	81	**4**
Wiltshire	$a-3+3=$	62	**4·5**
Dorset	$a-9+7=$	72	**7**
South Devon...	$a-15+7=$	142	**8**
North Devon ...	$a-1+2=$	43	**5**
Cornwall.. ...	$a-11+8=$	61	**4·5**
Somerset.........	$a-20+11=$	135	**8**
Gloucestershire	$a-7+4=$	97	**8**
Herefordshire	$a-1+2=$	46	**5·5**
Shropshire......	$a-6+4=$	45	**3**
Staffordshire...	$a-4+1=$	49	**4**
Worcestershire	$a-2+0=$	55	**8**
Warwickshire	$a-11+8=$	48	**5**
Leicestershire	$a-1+1=$	38	**4·5**
Rutland	$a-1+0=$	4	**2.5**
Lincolnshire ...	$a-6+6=$	85	**3**
Nottingham ...	$a-1+1=$	63	**7·5**
Derbyshire......	$a-4+4=$	89	**8·5**
Cheshire	$a-2+5=$	73	**7**
South Lancs...	$a-5+4=$	110	**15**
Central Lancs	$a-3+3=$	79	**15**
North Lancs ...	$a-4+6=$	72	**12**
Yorkshire, W.R.	$a-16+16=$	338	**12**

ENGLAND—*(continued)*.

Yorkshire, E.R.	*a*— 1+ 3 =	30	2·5
Yorkshire, N.R.	*a*—12+ 8 =	99	5
Durham	*a*— 3+ 1 =	46	4·5
Northumberl'd	*a*— 3+ 0 =	50	2·5
Cumberland ..	*a*— 5+ 5 =	68	4·5
Westmorland	*a*— 3+ 0 =	53	7

MONMOUTH AND WALES, &c.

Monmouth	*a*— 7+ 1 =	35	6·5
Glamorgan	*a*— 2+ 1 =	60	7·5
Carmarthen ...	*a*— 0+ 2 =	12	1·3
Pembroke	*a*— 2+ 3 =	20	3
Cardigan	*a*— 0+ 0 =	14	2
Brecon	*a*— 6+ 7 =	96	13
Radnor	*a*— 1+ 2 =	26	5·5
Montgomery ...	*a*— 1+ 4 =	25	3
Flint	*a*— 0+ 0 =	14	5·5
Denbigh	*a*— 1+ 2 =	36	5·5
Merioneth	*a*— 0+ 0 =	15	2
Carnarvon	*a*— 2+ 1 =	47	8
Anglesey	*a*— 1+ 4 =	14	5·5
Isle of Man ..	*a*— 1+ 0 =	9	4
Channel Isles	*a*— 0+ 2 =	23	30

SCOTLAND.

Wigtown	*a*— 1+ 2 =	10	2
Kirkcudbright	*a*— 3+ 1 =	16	1·8
Dumfries	*a*— 1+ 1 =	27	2·5
Roxburgh	*a*— 1+ 3 =	15	2
Selkirk	*a*— 0+ 0 =	8	3
Peebles	*a*— 1+ 0 =	19	5·5
Berwick	*a*— 1+ 0 =	12	3
Haddington ...	*a*— 0+ 2 =	12	4·5
Midlothian	*a*— 0+ 4 =	58	16
Linlithgow	*a*— 4+ 0 =	17	14
Lanark	*a*— 2+ 7 =	44	5
Ayr	*a*— 4+ 0 =	34	3
Renfrew	*a*— 4+ 2 =	36	15
Dumbarton ...	*a*— 0+ 1 =	18	7
Stirling	*a*— 5+ 0 =	33	7
Bute	*a*— 1+ 2 =	8	4
Argyll	*a*— 4+ 2 =	68	2
Clackmannan	*a*— 0+ 0 =	4	7
Kinross	*a*— 0+ 0 =	4	5
Fife	*a*— 2+ 1 =	37	7
Perth	*a*— 0+ 4 =	61	2
Forfar	*a*— 1+ 1 =	39	4·5
Kincardine	*a*— 0+ 0 =	14	4
Aberdeen	*a*— 2+ 9 =	40	2
Banff	*a*— 0+ 0 =	9	1·4
Moray	*a*— 1+ 0 =	13	3
Nairn	*a*— 0+ 0 =	4	2·5
Inverness	*a*— 1+ 3 =	54	1·3
Ross	*a*— 1+ 1 =	24	0·8
Sutherland	*a*— 2+ 0 =	9	0·4
Caithness	*a*— 1+ 1 =	11	1·6
Orkney	*a*— 0+ 1 =	13	3
Shetland	*a*— 0+ 1 =	7	1·3

IRELAND.

Cork	*a*— 0+ 1 =	24	0·8
Kerry	*a*— 0+ 1 =	11	0·6
Waterford	*a*— 0+ 3 =	15	2
Tipperary	*a*— 0+ 0 =	14	0·8
Limerick	*a*— 0+ 1 =	9	0·9
Clare	*a*— 1+ 0 =	8	0·6
Wexford	*a*— 0+ 0 =	9	1·0
Kilkenny	*a*— 2+ 1 =	7	0·9
Wicklow	*a*— 2+ 0 =	12	1·5
Carlow	*a*— 0+ 0 =	3	0·9
Queen's County	*a*— 1+ 0 =	5	0·8
King's County	*a*— 1+ 1 =	9	1·2
Kildare	*a*— 0+ 0 =	5	0·8
Dublin	*a*— 0+ 3 =	33	9
Meath	*a*— 1+ 0 =	7	0·8
Westmeath	*a*— 1+ 0 =	8	1·1
Louth	*a*— 1+ 0 =	5	1·6
Longford	*a*— 0+ 1 =	4	0·9
Galway	*a*— 2+ 0 =	4	0·2
Roscommon	*a*— 0+ 0 =	2	0·2
Mayo	*a*— 0+ 1 =	10	0·5
Sligo	*a*— 0+ 0 =	3	0·4
Leitrim	*a*— 0+ 0 =	3	0·5
Cavan	*a*— 0+ 1 =	3	0·4
Fermanagh	*a*— 0+ 1 =	3	0·4
Monaghan	*a*— 0+ 0 =	2	0·4
Armagh	*a*— 0+ 1 =	7	1·4
Down	*a*—2 + 2 =	12	1·2
Antrim	*a*— 0+ 1 =	18	1·5
Londonderry	*a*— 0+ 0 =	5	0·6
Tyrone	*a*— 1+ 0 =	4	0·3
Donegal	*a*— 1+ 0 =	6	0·3

OBITUARY.

THE shrinkage in the number of Observers on account of the war is reflected in the slight reduction of the list of deaths in the year ending June 30th, 1918, which includes 85 names as against 92 in each of the two preceding years. When the age of the Observer has been ascertained this is added in brackets after the name in the list, and the average of the 56 whose age was found comes out at 71 years, as compared with 72 in recent years. Sixteen were more than 80 years of age, and no less than five of these were more than 90. Seven of the 84 were killed in action.

Fifteen of those who have gone had rainfall records of more than 30 years' duration to their credit, and four of them had records of half a century or more, as shown in the following list.

Records of Thirty Years and upwards.

Mr. A. E. Graves	53 years	Rev. J. Ashburner	40 years
Miss M. C. Martineau	51 „	Miss E. Harrison	40 „
Mr. F. Chancellor...........	50 „	Mr. F. Ames	39 „
Mr. J. W. Woods	50 „	Mr. S. H. Miller	39 „
Mr. J. Drewitt	47 „	Mrs. M. J. Hare	38 „
Rev. J. Gill	47 „	Mr. S. H. Stephens	34 „
Mr. C. E. Harris-St. John ..	45 „	Rev. Sir Emilius Laurie, Bt, .	30 „
Mr. J. Wilson	43 „		

Did space permit we should like to devote several pages to personal notes on many old friends and faithful helpers. A notice of our late assistant, Donald S. Salter, has appeared in *Symons's Meteorological Magazine* for April, 1918, and a tribute to his memory appears in the Director's report to the Trustees, on p. 9 of this volume.

Amongst the others to whom reference must be made are :—

MR. FREDERICK CHANCELLOR, who lived to the age of 93, and was a rainfall Observer in Chelmsford for 50 years, was a well-known architect and a leading citizen of Chelmsford, having filled the office of Mayor on seven occasions. He was a lieutenant-colonel of the 2nd Volunteer Battalion of the Essex Regiment, and received the volunteer decoration. His rainfall record, in which he took a keen interest and a justifiable pride, was one of the best in the country both for accuracy and continuity.

MR. JOHN EDWARD CULLUM was for forty years the Superintendent of the Valencia Observatory of the Meteorological Office, first on Valencia Island and later at Cahirciveen, on the coast of Kerry, and was responsible for the important series of records kept at that First Order station. On his retirement, in 1915, he went to Oxford, where he resided until his death, at the age of 67, on January 11th, 1918.

Mr. Charles Hawksley, the eminent water engineer, although not personally an Observer, was responsible for the initiation of a great number of records of rainfall in connection with the schemes for water supply which he carried out in many parts of the country. Like his father, Thomas Hawksley, he had a natural instinct for divining the rainfall of a locality, and his vast experience and quiet humour made him a pleasant companion on moorland inspections.

The Rev. Sir Emilius Laurie, Bart., died at the great age of 94 on 4th December, 1917. He was the son of Sir John Bayley, Bart, who named him Emilius after a once-famous racehorse. He succeeded his father in 1871, and in 1886 he inherited Maxwelton House (the home of the Bonnie Annie Laurie immortalized by Burns) from his great uncle, Sir Robert Laurie, whose name he assumed. He was educated at Eton and Trinity College, Cambridge, took orders in 1846, and held in turn many benefices in England, retiring from parochial work in 1889. In his youth he was a famous cricketer, in middle life a notable London preacher, and in his later years a keen rainfall Observer and a valued supporter of the British Rainfall Organization.

Mr Samuel Henry Miller, who died at the age of 94, on April 14th, 1918, was one of the oldest of Mr. Symons's collaborators and an early and frequent contributor to the publications of the British Rainfall Organization, and it is little more than an accident that his name is not included in our list of Observers in the first volume of *British Rainfall.* From 1861 to 1876 he kept up a meteorological station at Wisbech, continued his records at Lowestoft until 1900, and in his subsequent residence at Deal he continued to foster the interest in local meteorology long after, as he said in one of his last letters to us, he had done his part in a public way and did not wish to appear again as an Observer. He was the oldest Fellow of the Royal Meteorological Society, which he joined in 1870, and he had a very well based knowledge of meteorology. In an essay competition arranged by the Royal Society of Arts and Sciences of Utrecht, open to the world, he gained a gold medal for his work on the measurement of evaporation. He took a keen interest in all natural phenomena and studied the district in which he lived with a thoroughness which can only be judged by reference to the standard work on the Fen district, " The Fenland, Past and Present," which he wrote in collaboration with Mr. Skertchly. He made other contributions to literature, and was a very frequent contributor to magazines and newspapers.

DR. W. H. SYMONS, Medical Officer of Health for Bath, who died on 25th August, 1917, at the age of 62, was not a relative of the founder of the British Rainfall Organization, although for many years he was in constant communication with him, as later with his successors, on matters relating to meteorology. Dr. Symons had a well-equipped meteorological station in his garden at Combe Park, Bath, and was exceptionally critical of the accuracy of his observations. He was in the front of all modern advances in Public Health, and devoted much attention to fly-borne diseases.

MR. EDWIN WATERHOUSE, the eminent accountant, who was concerned in the auditing of accounts of many of the largest commercial undertakings of the world, and in the investigation of the accounting in various Government departments, pursued in his home at Feldemore, Holmbury St. Mary, the rural pursuits which naturally lead to an interest in weather, and his records have for many years had a place in our tables.

Observers deceased to June 30th, 1918.

Small Capitals designate Observers with records of 30 years and upwards.

AMES, FREDERICK (81)	Hawford Lodge, Worcester.
Ames, Mrs. Charlotte Henrietta	Westbury-on-Trim, Bristol.
Armstrong, John H. M.	Greystones, Co. Wicklow.
ASHBURNER, REV. JOHN (71)	Blawith, Ulverston.
Atkinson, Rev. G. B.	Swanington, Norfolk.
Bailie, Maj.-Gen. Thomas Maubourg (73)	Caldecott House, Abingdon.
†Barne, Major Miles, D.S.O. (45)	Sotterley Hall, Beccles.
Bayne, Dr. Wm. Thirlwall (79)	Broadclyst, Exeter.
Beadle, Clayton (49)	Sidcup, Kent.
Bear, William Edwin (77)	Magham Down, Hailsham.
Blackburn, William, C.E.	Metropolitan W. Board, London.
Blake, Col. A. M., C.B. (66)	East Close, Christchurch.
Blanchard, G. W.	Tortworth, Glos.
Bowles, Arthur H.	Woodbridge.
Brassey, Albert (73)	Heythrop, Chipping Norton.
Bridgeman, Brig.-Gen. Hon. Francis C. (71)	Beech Hill, Reading.
†Brooke, Maj. William John, K.S.L.I. (42)	Haughton Hall, Shifnal.
Brown, George, M.R.C.S. (72)	Mount Lodge, Callington.
*CHANCELLOR, FREDERICK, V.D. (93)	Bellefield, Chelmsford.
Clarke, Robert A.	Kirkby Lonsdale.
Clonbrock, Lord (84)	Clonbrock, co. Galway.
Cottesloe, Lord (88)	Swanbourne House, Winslow.
Crace-Calvert, George Alfred, M.B. (47)	Llanbedr Hall, Ruthin.
Creswick, Sir Nathaniel, K.C.B., V.D. (86)	Norton, Sheffield.
*Cullum, John Edward (67)	Valencia Observatory, co. Kerry.
†Davey, A. H. P., C.E.	Water Works, Guernsey.
Davis, Miss Mary (68)	Greys Green, Henley.
Dixon, Mrs. Agnes Margaret	Great Roke, Witley.
DREWITT, JOHN (82)	Patching, Worthing.
Duckworth, Rev. William Arthur (89)	Orchardleigh, Frome.

Observers Deceased to June 30th, 1918—(continued).

Dymond, Mrs. Harriet Susanna (85)	Oaklands, Apsley Guise.
Emerson, Dr. John James (71)	Easby Hall, Yorks.
Eversley, W. P.	Coltishall, Norfolk.
Forester, Lord (75)	Willey Park, Salop.
Furlong, Robert O'Brien, C.B. (74)	Bournemouth.
Gill, Rev. J.	Holne. Ashburton.
Gill, T. C.	Silverdale, Ilkley.
Glen, Dr. James Henry	Wychwood House, Charlbury.
Graves, A. E.	Rockenham, Waterford.
Hare, Mrs. Matilda Jane	Court Grange, Newton Abbot.
Harrison, Miss E.	Mickley, Ripon.
Harris-St. John, Chas. Edward (74)	West Court, Finchampstead.
*Hawksley, Charles, C.E. (78)	London.
Hinde, George Jennings, F.R.S. (79)	Avondale Road, Croydon.
Hodgson, Thomas Hesketh (76)	Newby Grange, Cumberland.
Hogben, William Nicholas (61)	Glyn Neath, South Wales.
Kerr, W.	Little Richorn, Dalbeattie.
Knight, Rev. John Geo. Bury (77)	Boldon, co. Durham.
*Laurie, Rev. Sir J. R. L. Emilius, Bt. (94)	Maxwelton House, Dumfries-shire.
Macalister, Daniel, C.E. (62)	Greenock.
McMillan, J.	Glenhead of Trool, Kirkcudbright.
MacVarish, D.	Rhu, Arisaig, Inverness-shire.
Martineau, Miss M. C. (87)	Letchworth, Herts.
*Miller, Samuel Henry, (94)	Deal.
Moffat, Mrs. H. E.	Ballyhyland, Enniscorthy.
Money, Rev. Granville Erskine (73)	Byfleet, Surrey.
Naylor, Miss Frances (60)	Leighton Hall, Welshpool.
Pilsworth, W. T.	Thomastown, co. Kilkenny.
Powell, Miss Joan	Munslow, Salop.
Prothero, Francis Egerton	The Hall, Dunster, Somerset.
†Roper, Capt. William Edward (25)	Yealand Conyers, Lancs.
Rothera, Dr. F.	Beeston, Notts.
*†Salter, Sec.-Lieut. Donald Sowerby (28)	62, Camden Square, London.
Shorter, Arthur (91)	Park House, Hampton Wick.
Singleton, Rev. Canon J.	Southwell, Notts.
Smith, Bertram (41)	Broomlands, Beattock.
Smith, Urban Armstrong, C.E. (72)	Hatfield, Herts.
Spillet, J.	St. Thomas Hill, Canterbury.
Stephens, Samuel Hannam (77)	Gillingham, Dorset.
Stewart, Charles Frederick, D.L. (72)	Horn Head, Dunfanaghy.
Suffield, T.	Terrington, Yorks.
*Symons, William Henry, M.D., D.P.H. (62)	Combe Park, Bath.
Tighe, Capt. Edward Kenrick Bunbury (55)	Woodstock, co. Kilkenny.
†Troyte, Lt.-Col. Hugh Acland (48)	Huntsham Court, Bampton.
Turner, Henry, C.E. (76)	Folkestone.
†Wallace, Lt. James Hope	Featherstone Castle, Northumberl'd.
*Waterhouse, Edwin (77)	Feldemore, Dorking.
Wedderburn-Maxwell, Maj. J. A. C. (68)	Glenlair, Dalbeattie.
Whitworth, Dr. W. C.	St. Agnes, Cornwall.
Wildy, Arthur (66)	Shord Hill, Kenley.
Williams, D. P.	St. David's, Pembrokeshire.
Wilson, John (94)	Lorton, Cockermouth.
Woods, John William (80)	Chilgrove, Chichester.
Worthington, Albert Octavius (74)	Maple Hayes, Lichfield.
Wrigley, Oswald Osmond (81)	Wansfell, Windermere.

* *See* Biographical Note, *ante*. † Killed in action.

BRITISH RAINFALL 1917

PART II.

RAINFALL AND METEOROLOGY

OF

1917.

EVAPORATION AND PERCOLATION IN 1917.

THE only loss in the Evaporation and Percolation records for the year is that of the Croydon observations, which have been discontinued as foreshadowed last year, but the evaporation records for Worstead have been recommenced and are complete for the year. We are glad to have heard during the past year of arrangements for the erection of two new tanks in districts hitherto unrepresented.

The percolation values returned for Harrogate are exceptionally low, an effect which may be due to the unusually small winter rainfall.

Evaporation at Camden Square, 1885–1917.

	Jan. in.	Feb. in.	March. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Total in.
1885.	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.	c·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1·25	·78	·21	·07	16·78
1888.	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	·43	·03	12·60
1889.	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	·29	c·13	13·03
1890.	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	·04	13·74
1891.	·03	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	·22	12·81
1892.	·05	·09	·60	1·88	2·65	3·05	2·84	2·20	1·01	·36	·02	·20	14·95
1893.	c·03	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.	c·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
1895.	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26	c·14	15·73
1898.	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
1899.	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
1900.	·03	·16	·80	1·46	2·35	2·85	4·25	2·61	1·61	·89	·24	·15	17·40
1901.	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31	c·05	18·93
1902.	·16	·15	·71	1·75	1·78	2·33	3·30	1·71	1·47	·69	·28	·27	14·60
1903.	·26	·39	·97	1·57	2·24	2·79	3·35	2·53	1·51	·86	·29	·12	16·88
1904.	c·09	·26	·54	1·68	1·81	3·32	4·06	2·86	1·20	·50	·26	·02	16·42
1905.	·17	·35	·65	1·14	3·19	2·49	3·65	2·23	1·24	·78	·09	·16	16·14
1906.	·06	·21	·73	1·90	1·90	3·53	3·65	3·46	2·38	·78	·27	·16	19·03
1907.	·21	·38	1·02	1·27	1·93	2·47	2·65	2·24	1·72	·49	·27	·19	14·84
1908.	·05	·27	·56	1·32	2·23	3·77	2·75	2·47	1·25	·48	·29	·14	15·58
1909.	·14	·30	·30	1·85	2·93	1·70	2·60	2·23	·84	·76	·17	·16	13·98
1910.	·22	·17	·80	1·43	2·52	2·57	2·00	2·12	1·42	·76	·19	·10	14·30
1911.	·15	·32	·59	1·77	2·58	3·34	4·60	3·19	1·96	·64	·37	·02	19·53
1912.	·24	·16	·79	2·34	2·44	2·49	2·55	1·69	1·41	·39	·33	·12	14·95
1913.	·10	·32	·77	1·25	2·49	3·13	2·15	2·09	1·07	·61	·36	·32	14·66
1914.	·09	·24	·52	1·84	2·56	2·93	2·72	1·99	1·68	·70	·28	·05	15·60
1915.	·11	·13	·66	1·65	2·90	3·15	2·50	1·76	1·61	·56	·25	c·03	15·25
1916.	·19	·34	·30	1·61	2·32	2·20	2·23	2·34	1·20	·76	·34	c·04	13·79
Average 1885-1916	·11	·26	·65	1·56	2·39	2·89	3·02	2·34	1·37	·62	·25	·09	15·55
1917.	·11	·17	·53	1·18	3·06	3·01	2·81	1·95	1·16	·75	·34	·12	15·19
Diff.	·00	—·09	—·12	—·38	+·67	+·12	—·21	—·39	—·21	+·13	+·09	+·03	—·36

NOTE.—c indicates condensation.

Rainfall, Percolation and Calculated Evaporation in 1917.

1917.	Grayshott, Hants. Mrs. Lyndon.		Rothamsted, Herts, Dr. E. J. Russell.			
			Rainfall.	Percolation.		
	Rainfall.	Percolation.		20in. Soil.	40in. Soil.	60in. Soil.
	in.	in.	in.	in.	in.	in.
January	1·58	2·01	1·60	1·50	1·69	1·66
February	1·17	·57	·79	·76	·57	·70
March	2·25	2·02	1·50	·82	·87	·83
April	2·75	2·55	1·93	1·23	1·31	1·06
May	1·64	·04	1·82	·67	·78	·75
June	2·28	·00	1·96	·36	·43	·44
July	4·45	·00	4·20	2·24	2·34	2·25
August	7·25	4·23	6·05	4·38	4·42	4·25
September	2·11	1·40	1·83	·68	·70	·67
October	5·13	3·71	4·63	3·40	3·24	3·13
November	1·18	1·39	1·11	·91	·98	·93
December	1·98	1·56	·65	·18	·19	·20
Year	33·77	19·48	28·07	17·13	17·52	16·87
Calculated Evaporation	...	14·29	...	10·94	10·55	11·20

1917.	Timsbury, Hants. Mr. D. Kitchingman.		Twyford, Hants. Mr. D. Kitchingman.		Harrogate, Yorks. Harrogate Corporation.	
	Rainfall.	Percolation.	Rainfall.	Percolation.	Rainfall.	Percolation
	in.	in.	in.	in.	in.	in.
January	1·23	1·31	1·19	1·69	2·08	·24
February	1·18	·62	1·13	·84	·73	·07
March	3·31	2·08	2·78	2·22	1·91	·19
April	2·29	1·84	2·09	2·24	1·39	·11
May	1·77	·02	1·92	·00	1·95	·04
June	3·52	·06	4·17	·01	1·50	·00
July	4·50	·48	4·26	·72	1·01	·00
August	5·00	2·19	4·58	1·84	6·77	1·09
September	2·19	1·03	1·73	·80	·85	·04
October	3·94	2·61	4·50	3·25	3·78	·72
November	·99	·84	·79	·94	2·70	1·02
December	1·42	·93	1·36	1·11	·99	·00
Year	31·34	14·01	30·50	15·66	25·66	3·52
Calculated Evaporation	...	17·33	...	14·84	...	22·14

Evaporation in 1917.

	Camden Square.	New Malden.	Isfield Place.	Otterbourne.	Worstead.	Kenwick.	Revesby.
	in.	in.	in.	in.	in.	in.	in.
January	·11	·01	·16	·22	·16	·09	C ·06
February	·17	·03	·63	·08	·07	·38	·16
March	·53	·49	·96	·89	·18	·93	·34
April	1·18	·97	1·43	1·84	1·73	1·58	·95
May	3·06	2·38	3·10	3·48	3·43	2·95	2·79
June	3·01	3·76	3·62	4·22	3·78	3·50	2·93
July	2·81	2·49	3·41	3·43	3·63	3·07	2·86
August	1·95	1·50	2·42	2·52	2·61	1·82	2·08
September	1·16	1·52	1·82	1·90	1·98	1·38	1·33
October	·75	·44	1·16	·90	1·10	·39	·70
November	·34	·27	·51	·39	·46	·23	·22
December	·12	·18	·21	·11	·10	·30	·01
Year	15·19	14·04	19·43	19·98	19·23	16·62	14·31
Average, 1908-1917	15·28	...	19·25	19·36	...	18·50	14·66
Difference	—·09	...	+·18	+·62	...	—1·88	—·35
RAIN. Year	30·05	27·73	30·53	32·31	25·37	33·87	26·75
Average, 1908-1917	27·28	27·27	32·40	32·50	28·16	43·77	26·11
Difference	+2·77	+·46	—1·87	—·19	—2·79	—9·90	+·64

	Southport	Ardsley. No. 1.	Ardsley. No. 2.	Lower Laithe.	Harrogate.	Talla Water.	Mean of 13 Records.
	in.	in.	in.	in.	in.	in.	in.
January	·15	·36	·25	C ·11	·09	·31	·14
February	·11	·28	·18	C ·07	·06	·26	·18
March	·48	·66	·53	·33	·85	·65	·60
April	1·43	1·05	1·18	1·30	·95	·98	1·27
May	2·25	3·03	2·89	2·41	3·07	2·85	2·90
June	3·07	3·10	2·87	3·12	3·37	3·88	3·40
July	3·90	4·07	3·46	3·85	4·19	3·93	3·47
August	2·13	2·39	2·15	2·08	2·19	2·39	2·17
September	1·39	2·00	1·66	1·64	1·86	1·15	1·60
October	·74	1·03	·75	1·28	1·40	·87	·89
November	·13	·30	·18	·41	·33	·30	·31
December	·06	·05	C ·08	·35	·15	·18	·13
Year	15·84	18·32	16·02	16·59	18·51	17·75	17·06
Average, 1908-1917	...	17·32	...	...	18·73	17·37	...
Difference	...	+1·00	...	...	—·22	+·38	...
RAIN. Year	33·71	23·33	24·01	43·38	25·66	44·05	30·18
Average, 1908—17	32·90	25·54	...	...	28·72	48·43	...
Difference	+81	—2·21	...	...	—3·06	—4·38	...

NOTE.—In the table C indicates condensation.

Stations Recording Evaporation in 1917.

Station.	County.	Observer.	Particulars of Tank.					
			Height Above			Diameter.		Capacity.
			Ground.		Sea Level.			
			ft.	in.	feet.	ft.	in.	Gals.
Camden Square	London 2	Dr. H. R. Mill......	0	3	111	6	0	450
New Malden ...	Surrey 5	W. J. Carter, Esq.	0	3*	40	0	8	...
Isfield Place ...	Sussex 4	Major H. King......	0	3	41	4	0	250
Otterbourne ...	Hampshire 5	E. C. Rodda, Esq.	0	3	112	6	0	450
Worstead	Norfolk 2	R. J. Cross, Esq....	0	4	55	2	6	...
Kennick	Devon.............. 5	S. C. Chapman, Esq.	0	3	835	6	0	450
Revesby	Lincoln 3	J. Shaw, Esq.	0	2	130	6	0	450
Southport	Cen. Lancashire 3	J. Baxendell, Esq..	0	3	37	3	0	112
Ardsley No. 1...	Yorkshire, W.R.8	C. C. Smith, Esq...	0	3	395	6	0	450
,, No, 2...	,, ,, 8	,, ,, ...	0	3	326	6	0	450
Lower Laithe	,, ,, 8	M. R. Barnett, Esq.	0	6†	772	6	0	450
Harrogate	,, ,, 8	A. S. West, Esq. ...	flush		589	6	0	450
Talla Water ...	Peebles 1	Messrs. Leslie&Reid	0	3	904	6	0	450

* Above water. † Varying from 2½ to 9 inches.

METEOROLOGICAL OBSERVATIONS AT CAMDEN SQUARE IN 1917.

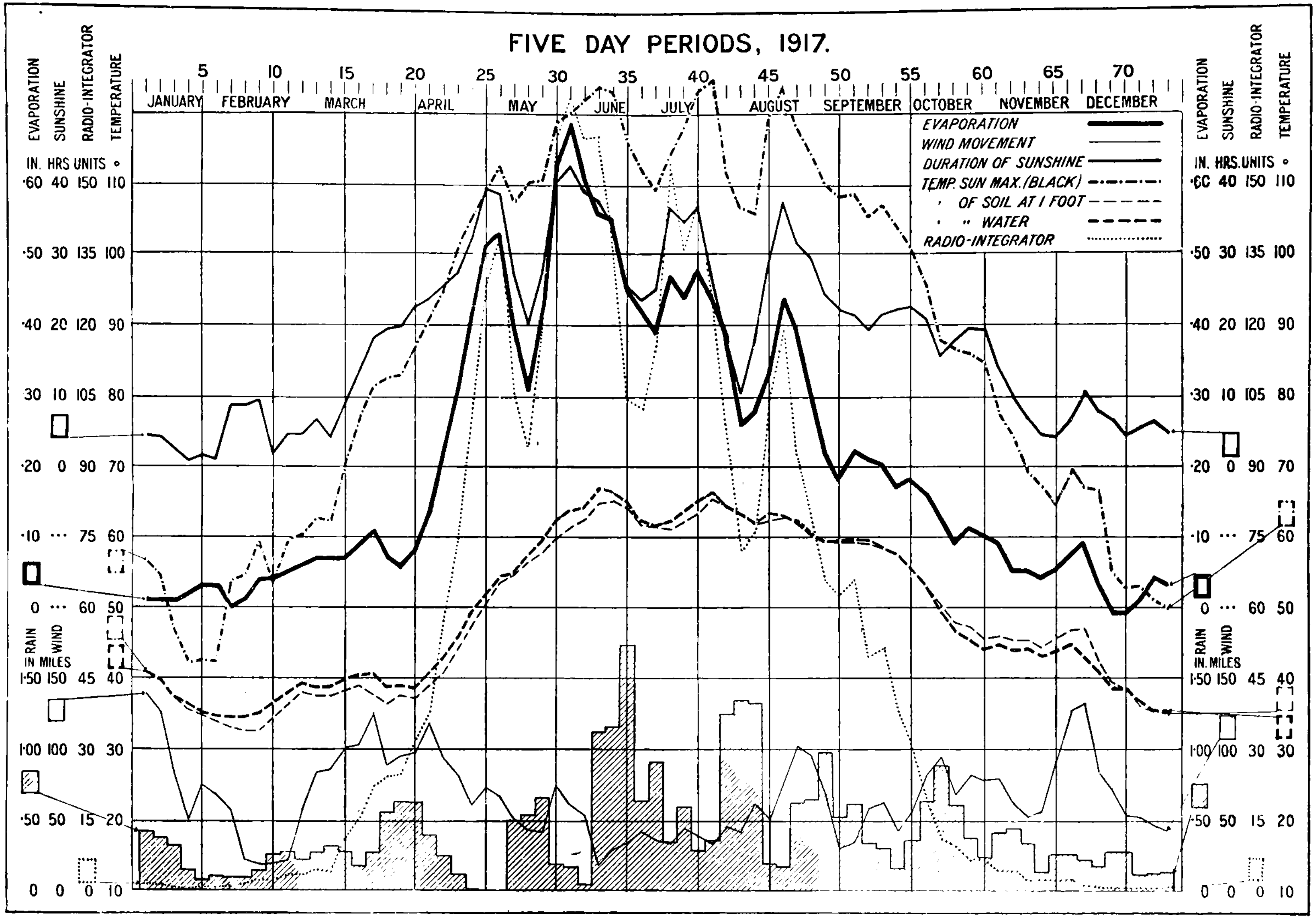
THE Table of Meteorological Observations is compiled from the readings taken at 9 a m. and 9 p.m. The average, when referred to, is in every case for the 50 years 1860-1909. The rainfall is from the 8-inch rain gauge of the Meteorological Office pattern ; the radiation temperature from a black-bulb maximum thermometer *in vacuo* at a height of 4 feet above the ground, and from a link-bulb minimum thermometer laid on short grass and freely exposed to the sky. The radio-integrator was described in *British Rainfall, 1907*, p. 44. Earth temperature is taken by spirit thermometers suspended in iron tubes of 1-inch internal diameter driven into the soil. They are read once daily, at 9 a.m. The shade temperature is from thermometers on a Glaisher Stand, the mean daily temperature being the mean of maximum, minimum, 9 a.m. and 9 p.m. readings. In the table under the heading "Evaporation," c indicates condensation.

METEOROLOGICAL OBSERVATIONS AT CAMDEN SQUARE, LONDON, IN 1917.

1917.	Mean. temp.	Diff. fr. aver.	Mean. max.	Diff. fr. aver.	Highest max.	Date.	Lowest max.	Date	Mean min.	Diff. fr. aver.	Highest min.	Date.	Lowest min.	Date
	°	°	°	°	°		°		°	°	°		°	
January	35·5	—3·0	38·3	—5·0	55·0	1	30·5	25	32·7	—1·1	48·0	1	24·8	29
February	35·4	—4·2	40·7	—4·8	49·9	26	28·9	2	30·7	—4·0	40·8	25	19·1	7
March	38·6	—3·5	45·2	—4·8	57·0	17	34·1	7	32·8	—2·6	41·9	12	20·2	9
April	43·1	—5·3	52·6	—5·3	67·4	30	41·0	1	34·6	—5·1	49·0	29	26·5	2
May	59·1	+5·1	71·4	+6·8	83·9	27	55·6	17	48·5	+3·9	57·6	21	35·2	7
June	63·8	+3·7	76·0	+5·2	89·9	17	58·2	29	54·2	+3·5	61·7	18	46·1	23
July	63·9	+0·4	75·2	+0·9	83·2	14	59·0	31	54·7	+0·5	62·2	14	46·6	11
August	62·3	0·0	71·4	—1·3	80·5	22	59·6	1	55·6	+2·2	60·8	23	49·6	20
September	59·5	+1·8	69·8	+2·4	74·9	5, 8	63·8	28	51·9	+3·2	59·3	7, 19	43·0	30
October	47·1	—3·0	55·9	—1·8	71·9	2	47·2	28	40·3	—3·4	57·1	4	30·1	28
November	46·8	+3·3	52·1	+3·0	58·8	21	45·2	11	41·8	+3·6	50·6	22	30·9	26
December	36·0	—3·7	41·1	—3·2	53·8	1	30·6	20	31·3	—3·7	45·8	1	21·6	19
Year.	49·3	—0·7	57·5	—0·6	89·9	Jun 17	28·9	Feb. 2	42·4	—0·3	62·2	Jul. 14	19·1	Feb. 7

1917.	Rain-fall Dura-tion.	Max. dura-tion.	Total Rain-fall.	Diff. fr. aver.	Max. fall.	Rain days.	Evapor-ation.	Mean. Max. in Sun.	Mean Min. on Grass.	Radio-Integra-tor.	Sun-shine Dura-tion.	Max. Sun-shine.	Earth temp.		
													1 foot.	4 feet.	10 feet.
	hrs.	hrs.	in.	in.	in.		in.	°	°	units.	hrs.	hrs.	°	°	°
January	54·4	7·2	1·30	— ·70	·25	18	·11	48·1	29·9	4·2	16·5	4·2	37·2	42·8	48·5
February	23·7	5·3	·93	— ·67	·20	10	·17	57·1	28·7	12·4	38·0	7·4	34·5	39·3	46·8
March	43·5	8·3	1·74	— ·01	·39	20	·53	71·8	29·8	78·7	69·8	8·2	38·0	40·2	45·2
April	44·2	6·5	2·20	+ ·58	·42	16	1·18	80·2	30·6	317·5	149·0	10·9	40·8	41·0	44·5
May	19·4	5·3	1·99	+ ·14	·62	8	3·06	112·0	45·3	811·8	209·3	12·7	55·9	48·7	44·8
June	16·9	9·7	5·29	+2·97	2·86	10	3·01	118·8	51·7	776·3	184·7	11·7	63·5	56·3	47·4
July	63·8	18·8	4·13	+1·77	1·66	11	2·81	118·2	52·8	830·4	190·3	12·0	63·5	58·5	50·2
August	54·1	12·0	3·99	+1·64	1·05	23	1·95	113·2	53·3	528·9	160·0	10·4	61·7	59·6	...
September	24·3	7·1	2·30	+ ·11	1·09	11	1·16	107·0	50·0	332·9	135·7	10·6	58·6	58·3	...
October	57·1	11·4	3·26	+ ·63	·42	19	·75	88·4	38·6	60·6	116·0	7·2	48·5	54·3	...
November	39·6	16·0	1·82	— ·52	·53	15	·34	68·3	38·6	11·4	37·4	5·0	45·8	48·3	...
December	34·9	8·5	1·10	—1·03	·28	14	·12	53·8	28·3	3·7	39·0	4·8	37·7	35·4	...
Year.	475·9	18·8	30·05	+4·91	2·86	175	15·19	86·4	39·8	3768·8	1345·7	12·7	48·8	48·6	...

EVAPORATION FROM A WATER SURFACE AND OTHER METEOROLOGICAL PHENOMENA.



THE DISTRIBUTION OF RAINFALL IN TIME.

THIS section deals with the number of days on which rain fell, the occurrence and duration of droughts and rain spells, the duration of rainfall in hours, and the occurrence of heavy rains in short periods, *i.e.*, up to 6 hours.

While we give in full all the scanty data which we receive on the subject of heavy rains in short periods and on the duration of rainfall it is impossible to discuss in detail all the material regarding rain days and their grouping. On this account these are treated in a representative way by analyzing the daily returns of 100 stations uniformly distributed over the British Isles and selected with regard to the known completeness and accuracy of the records. As the inch and millimetre are incommensurable there is a difficulty which is practically insuperable in utilizing in one discussion of rain days, droughts or rain spells, returns made both in millimetres and inches. Hence we deal in these sections with stations recording inches only ; not because we worship the inch or dislike the millimetre, but simply because the data in inches are sufficient for our purpose, those in millimetres are not. One great advantage of this method is that in the case of droughts it permits of a fair comparison with past years extending over a considerable range of time.

RAIN DAYS IN 1917.

A **RAIN DAY** is a day on which ·01 inch of rain or more is recorded. A fall of rain exceeding ·005 in. but less than ·01 in. is recorded as ·01 in. A fall of rain less than ·005 in. is ignored.

The number of rain days in an average year has a distinct geographical relationship as may be seen in the map published in this section in *British Rainfall 1915,* which, but for the necessity of saving space would be reproduced here, along with a map of rain days in 1917. The latter map has been drawn and corresponds very closely to the average. It shows a very small patch at the mouth of the Thames estuary with less than 150 rain days, larger areas in South Wales and Lancashire, with more than

200 rain days, while the rest of England and Wales had intermediate numbers. All Ireland except the south-eastern corner, and all of the west and north of Scotland had more than 200 rain days, while the north-west coast of Ireland and the extreme north of Scotland had, as is normal, more than 250 rain days.

Table I. gives the full data for the hundred selected stations. It shows the number of rain days in each month, and the total for the year, also the total rainfall and the mean amount of rainfall per rain day.

Table II. compares the total number of rain days in 1917 with the average for the three kingdoms, with the result that, judged by this test, the year was a normal one. Without splitting units, the number of rain days was 1 per cent. below the average in England and Wales, while for Ireland, Scotland and the United Kingdom as a whole, there was no difference from the average.

TABLE II.—*Rain Days*, 1903-1917, *compared with Average*, 1892-1911.

Year.	ENGLAND & WALES. Average 187.			SCOTLAND. Average 216.			IRELAND. Average 223.			BRITISH ISLES. Average 204.		
	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.
1903	211	+24	113	244	+28	113	252	+29	113	229	+25	112
1904	188	+ 1	101	219	+ 3	101	231	+ 8	104	206	+ 2	101
1905	186	— 1	99	222	+ 6	103	221	— 2	99	203	— 1	100
1906	192	+ 5	103	226	+10	105	231	+ 8	104	210	+ 6	103
1907	203	+16	109	232	+16	107	240	+17	108	218	+14	107
1908	189	+ 2	101	221	+ 5	102	228	+ 5	102	206	+ 2	101
1909	195	+ 8	104	216	0	100	209	—14	94	204	0	100
1910	209	+22	112	221	+ 5	102	233	+10	104	218	+14	107
1911	175	—12	94	209	— 7	97	202	—21	91	191	—13	94
1912	212	+25	113	228	+12	106	235	+12	105	222	+18	109
1913	190	+ 3	102	212	— 4	98	220	— 3	99	203	— 1	100
1914	192	+ 5	103	214	— 2	99	222	— 1	100	205	+ 1	100
1915	182	— 5	97	206	—10	95	217	— 6	97	197	— 7	97
1916	205	+18	110	232	+16	107	239	+16	107	220	+16	108
1917	185	— 2	99	217	+ 1	100	224	+ 1	100	203	— 1	100

The want of satisfactory monthly averages of rain days, which would require as a basis a great many more years than suffice for annual averages, makes it difficult to compare the monthly figures in 1917 with previous years. It may be noted, however, that in England and Wales August and October were the only months with a very excessive number of rain days, 24 and 23 respectively, while February, May and July, each with 11, were the only months with a noticeably small number. In Scotland

TABLE I.—*Number of Rain Days in 1917.*

STATION	COUNTY.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Total.	Total Rain-fall.	Amount per Rain Day
ENGLAND & WALES.															in.	in.
St. Pancras, Camden Square ...	London 2	14	9	20	15	8	11	11	23	11	18	14	13	167	29·76	·18
Tenterden, View Tower	Kent 1	17	9	19	14	9	12	13	22	11	21	13	18	178	28·86	·16
Brighton, Shoreham	Sussex 3	13	10	18	13	11	13	12	23	10	19	11	11	164	28·49	·17
Sandown, Free Library	Hampshire 1	11	10	20	11	12	12	13	19	14	25	20	16	183	26·66	·15
Petersfield, Ditcham Park	,, ... 5	14	9	20	14	12	11	13	23	13	22	10	10	171	35·31	·21
Upton	Berkshire 5	15	13	19	13	10	15	15	20	12	21	9	12	174	25·50	·15
Newport Pagnell, The Croft ..	Buckinghamshire... 5	18	11	17	14	9	10	12	24	11	21	14	11	172	25·07	·15
Cambridge, Sidney Street	Cambridgeshire ... 2	18	15	19	13	6	10	9	22	11	18	10	13	164	21·55	·13
Southend, Water Works	Essex.................. 3	17	10	18	14	7	9	12	18	10	16	14	16	161	22·89	·15
Lexden, Hill House..............	,, ... 5	16	11	17	12	6	8	11	17	9	16	12	13	148	22·29	·15
St. Olave's Priory.........	Suffolk 4	19	8	20	17	6	11	9	20	9	18	15	16	168	28·30	·17
Great Massingham	Norfolk 1	20	16	18	15	6	10	10	22	9	18	13	15	172	26·48	·15
Salisbury Plain, Shrewton	Wiltshire 3	13	11	24	12	12	14	16	26	15	24	16	13	196	35·11	·18
Dorchester, Wollaston House...	Dorsetshire 3	8	9	21	13	11	11	11	24	12	21	14	12	167	28·85	·17
Ashburton, Druid House.........	South Devon 4	11	7	17	13	10	14	12	24	16	26	20	12	182	42·86	·24
Martinhoe Rectory	North Devon 1	9	8	16	14	9	16	12	25	12	29	24	14	188	38·96	·21
Morwenstow Vicarage	Cornwall 1	12	11	21	18	12	20	13	23	13	28	27	15	213	37·92	·18
St. Austell, Trevarna	,, ... 2	14	11	20	15	11	15	13	23	14	27	23	13	199	40·10	·20
Angersleigh, Leigh Court	Somerset 3	10	8	19	13	9	14	15	26	15	24	14	9	176	30·93	·18
Mickleton, Bank House	Gloucestershire...... 4	16	11	19	11	9	14	11	21	12	21	13	11	169	22·51	·13
Clifton, Harley Place	,, ... 5	13	10	23	16	12	16	14	24	17	26	22	11	204	35·02	·17
Hereford, Holmer Hall	Herefordshire 1	12	11	19	13	15	17	11	28	13	24	15	10	188	26·97	·14
Shifnal, National School	Shropshire 4	10	10	18	15	12	13	8	27	12	21	17	11	174	27·87	·16
Mayfield House [Ashbourne] ...	Staffordshire......... 4	22	11	12	12	13	14	7	28	11	22	19	17	188	32·70	·17
Leicester, Stoneygate Road......	Leicestershire 4	16	8	16	15	9	12	9	22	13	20	11	15	166	23·11	·14
Spalding, Pode Hole	Lincolnshire......... 2	20	14	20	14	8	9	10	23	15	27	17	20	197	19·94	·10
Spilsby, Ashby Road	,, ... 4	16	11	17	16	6	11	11	21	9	16	12	12	158	25·00	·16
Worksop, Hodsock Priory	Nottinghamshire ... 5	23	8	17	12	10	13	8	25	9	20	15	10	170	20·23	·12
Northwich, Winnington	Cheshire 2	12	11	15	12	13	12	5	26	10	24	19	16	175	30·85	·18
St. Michael's-on-Wyre Vicarage	North Lancashire... 5	15	10	15	14	13	8	6	22	16	25	22	14	180	35·83	·20
Settle	Yorkshire, W.R.... 2	20	10	19	14	15	17	10	24	18	25	25	17	214	41·12	·19
Meltham, Harewood Lodge ...	,, ,, .. 8	21	10	17	15	11	15	7	28	12	27	20	17	200	41·73	·21
Hull, Pearson Park	,, E.R. ... 3	24	12	17	16	8	13	10	25	9	18	18	16	186	24·18	·13
Felixkirk, Mount St. John	,, N.R. ... 2	23	9	19	17	10	15	11	26	7	22	14	14	187	27·88	·15

TABLE I.—*Number of Rain Days in 1917*—(*continued*).

STATION.	COUNTY.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Total.	Total Rain-fall.	Amount per Rain Day
ENGLAND & WALES—(*con.*)															in.	in.
Sleights	Yorkshire, N.R. ... 5	20	11	17	17	10	11	12	24	7	16	11	17	173	27·94	·16
Sunderland, West Hendon House	Durham ... 2	24	12	17	18	12	12	10	27	8	18	15	18	191	27·32	·14
Glanton, Glanton Pyke Gardens	Northumberland ... 5	24	10	16	18	13	9	8	24	11	19	14	15	181	28·81	·16
Carlisle, Newby Grange	Cumberland ... 1	15	10	12	15	13	10	8	24	20	25	20	17	189	28·32	·15
Kirkby Stephen, Redman House	Westmorland ... 1	16	9	15	14	14	10	10	25	18	23	17	13	184	39·77	·22
Dungeon Ghyll	,, ... 2	14	14	19	17	14	12	12	22	21	28	22	18	213	104·99	·49
Treherbert, Tyn-y-waun	Glamorgan ... 6	15	15	21	16	18	19	12	28	17	28	25	15	229	72·24	·32
Carmarthen, The Friary	Carmarthen ... 2	12	13	22	17	16	18	13	25	18	30	29	16	229	46·90	·20
Fishguard Langton, Dwrbach	Pembroke ... 4	9	14	22	18	14	14	14	24	18	29	23	16	215	38·11	·18
Aberystwyth, Gogerddan	Cardigan ... 2	8	12	19	17	11	14	11	22	17	28	23	15	197	50·22	·26
Birmingham W.W., Tyrmynydd	Radnor ... 1	16	13	20	14	13	14	11	26	10	28	21	14	200	54·62	·27
Lake Vyrnwy	Montgomery ... 5	11	8	19	13	10	13	9	25	14	25	22	16	185	47·95	·26
Denbigh, Garn	Denbigh ... 2	14	13	19	16	13	11	9	26	12	28	16	15	192	34·72	·18
Abersoch	Carnarvon ... 4	8	9	18	17	12	11	9	19	16	28	20	16	183	45·88	·25
Llanerchymedd, Llwydiarth Esgob	Anglesey	12	14	18	18	16	11	6	23	20	30	22	20	210	41·10	·20
England & Wales	(Mean of 49 stations)	**15**	**11**	**18**	**15**	**11**	**13**	**11**	**24**	**13**	**23**	**17**	**14**	**185**	**34·69**	**·19**
ISLE OF MAN.																
Douglas, Clypse Res., Onchan	Isle of Man	13	15	20	15	19	8	6	24	16	29	22	18	205	46·08	·23
SCOTLAND.																
Whithorn, Cutroach	Wigtown ... 4	8	10	15	18	14	6	10	20	16	22	24	17	180	38·17	·21
Jardington [Dumfries]	Kirkcudbright ... 5	15	11	17	14	14	13	11	20	19	24	24	15	197	39·07	·20
Marchmont House	Berwick ... 4	21	11	14	13	14	8	5	27	11	21	16	15	176	33·33	·19
Balerno, Cockburn Hill	Midlothian ... 5	14	8	16	11	12	9	11	24	15	24	20	15	179	33·26	·19
Girvan, Pinmore	Ayr ... 8	11	14	19	22	16	10	9	22	27	26	26	22	224	48·32	·22
New Cumnock, Ayr Sanatorium	,, ... 13	18	12	18	20	13	13	10	23	23	27	27	21	225	51·96	·23
Stirling, Touch Reservoir No. 1	Stirling ... 1	12	10	19	14	19	13	10	25	21	24	17	14	198	42·20	·21
Rothesay, Ardencraig	Bute ... 1	14	15	25	21	17	19	14	24	26	26	27	22	250	53·94	·22
Lochgilphead, Poltalloch	Argyll ... 6	11	13	19	18	11	15	12	21	25	27	27	20	219	57·91	·26
Campbeltown, Witchburn	,, ... 10	12	10	15	15	14	13	12	26	22	27	24	17	207	52·69	·25
Islay, Eallabus	,, ... 14	13	14	22	21	18	18	14	22	25	31	28	23	249	56·53	·23
Mull, Ulva	,, ... 14	13	20	22	20	21	17	15	23	26	29	27	27	260	59·63	·23
St. Andrews, Water Works	Fife ... 3	17	5	12	15	12	8	8	27	13	19	14	16	166	20·94	·13
Aberfeldy, Dall Avon	Perth ... 11	18	8	18	11	13	12	9	25	19	26	19	13	191	28·20	·15

Fettercairn, The Burn	Kincardine 1	19	6	18	13	11	9	10	24	17	23	20	16	186	28·02	·15
Logie Coldstone School	Aberdeen 1	23	13	24	21	8	12	9	25	20	24	19	17	215	26·71	·12
New Deer Schoolhouse	,, 4	24	15	24	22	9	10	10	24	20	25	25	21	229	32·00	·14
Gordon Castle	Moray 2	18	12	23	23	11	11	14	18	18	27	25	19	219	31·16	·14
Muckerach Lodge [Grantown]	Inverness 3	18	11	22	25	13	8	11	23	19	23	22	18	213	30·70	·14
Drumnadrochit	,, 9	17	13	16	23	16	20	12	18	18	28	23	20	224	37·65	·17
Loch Nevis, Inverie	,, 12	14	18	18	25	15	19	12	23	24	29	27	23	247	86·15	·35
Glenleven, Kinlochmore	,, 17	15	15	22	25	16	19	14	23	26	30	26	20	251	92·20	·37
Skye, Portree	,, 18	14	14	20	23	13	18	10	21	26	29	29	25	242	55·09	·23
Achnasheen Ledgowan	Ross 4	15	15	18	26	11	18	13	20	26	29	27	22	240	81·87	·34
Dunrobin Castle	Sutherland 2	12	8	16	20	10	8	6	21	17	24	19	11	172	36·10	·21
Loch More, Achfary	,, 5	16	19	21	27	12	18	8	22	28	30	29	24	254	90·69	·36
Thurso, Buckies	Caithness 3	23	20	26	22	17	18	10	17	25	28	27	23	256	48·53	·19
Scotland	(Mean of 27 stations)	**16**	**13**	**19**	**19**	**14**	**13**	**11**	**22**	**21**	**26**	**24**	**19**	**217**	**47·88**	**·22**
IRELAND.																
Castletownshend, Seafield	Cork 6	16	11	19	12	16	15	12	22	14	25	23	15	200	35·22	·18
Mallow, Longueville	,, 9	12	12	19	14	17	15	12	27	11	27	19	21	206	31·80	·15
Kenmare, Derreen	Kerry 4	17	12	21	13	16	17	23	27	20	29	25	17	237	58·66	·25
Waterford, Brook Lodge	Waterford 3	10	14	17	10	11	15	13	23	13	22	16	16	180	33·88	·19
Nenagh, Castle Lough	Tipperary 1	14	12	23	13	13	11	16	25	10	28	23	15	203	35·67	·18
Cahir, Suirvale	,, 3	11	12	19	11	15	11	15	22	17	26	21	19	199	29·17	·15
Killadysert, Paradise Hill	Clare 3	14	13	22	13	10	15	18	26	19	26	24	20	220	39·51	·18
Gorey, Courtown House	Wexford 4	15	11	15	10	15	13	15	24	16	23	15	17	189	33·97	·17
Abbey Leix, Blandsfort	Queen's County 2	15	10	23	12	14	15	14	26	18	23	22	20	212	33·91	·16
Straffan House	Kildare 2	17	10	18	12	15	13	11	25	17	21	20	21	200	30·42	·15
Kells, Headfort	Meath 4	16	13	21	13	16	13	11	24	16	22	25	22	212	33·51	·16
Moate, Coolatore	Westmeath 1	15	12	20	11	14	16	20	25	19	29	26	22	229	38·12	·17
Ballynahinch Castle	Galway 3	16	13	25	19	13	20	19	26	26	31	28	22	258	65·01	·25
Woodlawn	,, 4	13	12	19	12	12	13	19	25	20	27	21	14	207	39·02	·19
Crossmolina, Enniscoe	Mayo 2	16	14	26	18	16	19	18	29	24	30	24	20	254	54·14	·21
Collooney, Markree Observatory	Sligo 2	17	17	21	17	17	22	19	26	24	29	25	21	255	51·38	·20
Belturbet, Cloverhill	Cavan 1	14	16	22	16	16	17	17	21	21	25	23	19	227	34·68	·15
Seaforde	Down 2	15	13	20	14	16	10	11	25	16	22	20	21	203	37·79	·19
Ballymena, Harryville	Antrim 5	18	17	24	20	19	16	12	24	22	28	28	21	249	47·62	·19
Londonderry, Dunruadh	Londonderry 1	14	15	25	18	17	20	11	25	24	30	26	23	248	47·27	·19
Omagh, Edenfel	Tyrone 3	16	13	25	16	16	20	15	24	22	30	27	23	247	45·53	·18
Dunfanaghy, Horn Head	Donegal 3	17	17	26	22	16	22	19	25	27	23	30	26	270	49·25	·18
Killybegs, Rockmount	,, 5	14	14	25	18	13	20	16	26	27	30	25	23	251	69·21	·28
Ireland	(Mean of 23 stations)	**15**	**13**	**22**	**15**	**15**	**16**	**15**	**25**	**19**	**26**	**23**	**20**	**224**	**42·34**	**·19**
BRITISH ISLES	(,, 100 ,,)	**15**	**12**	**19**	**16**	**13**	**14**	**12**	**23**	**17**	**25**	**20**	**17**	**203**	**40·12**	**·20**

the numbers of rain days in August, September, October and November were all excessive, more than 21 in each case, and the largest number in September, which had twice as many rain days as in England and Wales. July, with 11 days, was the only markedly deficient month. In Ireland the three months March, August and October, had an excessive number of rain days, and February alone a marked deficiency. The rainfall per rain day averaged just ·20 in., being ·19 in. for England and Wales, ·22 in. for Scotland, and ·19 in. for Ireland.

One interesting reflection suggested by the table of rain days is that in spite of the terrific cannonading in France and Belgium during the greater part of the year there was no tendency for a larger number of rain days in the British Isles than is normal, while the total rainfall showed a slight deficiency.

DROUGHTS IN 1917.

Two classes of drought are dealt with, one taking account of periods without rain, the other of periods with a very small rainfall. The definitions of these classes are :—

THE ABSOLUTE DROUGHT is a period of *more than* 14 consecutive days, no one of which is a rain day.

THE PARTIAL DROUGHT is a period of *more than* 28 consecutive days, the mean rainfall of which does not exceed ·01 in. per day.

The following discussion is based on the 100 selected stations used for the discussion of rain days and set out in the Table on pp. [9]—[11]. Each station at which a drought of either class occurred in 1917 is entered in the Table of Droughts on pp. [15]—[17] with particulars of the date and duration of each drought recorded, the names of the 16 stations at which no drought of either class occurred being omitted in order to economize space.

No absolute drought was recorded during the year at 23 stations as against 50 in an average year. This indicates that the distribution of absolute droughts was much wider than usual, there being only a small area in the north-east of England, and larger tracts in the west of Scotland and in the north of Ireland, in which an instance of at least 15 consecutive rainless days did not occur. At 29 stations there were two or more absolute droughts in the course of the year, most of these being in England and Wales, and at 2 stations in North Wales there were respectively 3 and 4 absolute droughts. There is, no doubt, in fact, that in North Wales long periods without any rain were more common during this year

Comparative Summary of Droughts, 1887—1917.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts at 100 Stations	Duration.		Stations without one.	No. of Droughts at 100 Stations	Duration.		Stations without one.
		Mean.	Greatest.			Mean.	Greatest.	
		days.	days.			days.	days.	
1887	160	21	34	4	116	40	74	18
1888	34	17	20	70	8	42	50	92
1889	84	21	30	26	76	34	45	30
1890	26	18	20	78	6	30	31	94
1891	52	18	34	56	76	36	49	28
1892	72	16	20	50	34	35	64	66
1893	78	20	44	46	106	51	114	20
1894	104	18	31	20	88	37	62	26
1895	104	19	29	32	94	39	64	38
1896	54	18	26	50	98	40	75	32
1897	40	18	20	62	14	40	61	88
1898	62	17	28	54	62	38	77	52
1899	120	21	31	20	82	35	48	40
1900	28	17	21	76	18	32	35	82
1901	112	17	20	20	18	37	56	84
1902	10	17	18	90	4	37	41	96
1903	22	19	25	79	33	34	41	71
1904	12	16	18	88	18	34	41	82
1905	26	17	20	74	59	36	48	60
1906	73	17	25	47	40	36	55	62
1907	56	19	25	51	30	32	41	71
1908	74	18	32	48	52	35	54	68
1909	47	17	23	66	18	37	51	84
1910	32	16	24	70	23	33	42	78
1911	137	19	32	20	137	36	75	19
1912	105	19	32	26	68	37	69	42
1913	67	17	26	33	52	37	62	54
1914	49	20	25	65	54	33	50	57
1915	68	18	33	38	56	36	50	57
1916	52	20	29	51	44	33	43	57
Average	65	18	27	50	53	36	56	58
1917	109	19	28	23	64	33	61	46
Diff.	+44	+1	+1	—27	+11	—3	+5	—12

NOTE.—The values previous to 1910 have been increased to the equivalent of 100 stations for ready comparison.

than in any other part of the British Isles. The length of these dry spells all over the country was slightly greater than the average, the mean duration over all being 19 days, as compared with an average of 18, and the longest absolute drought being 28 days (at Lake Vyrnwy) compared with an average of 27 days.

The driest period of the year in the British Isles, judged from the occurrence of absolute droughts, was in the three weeks from about April 18th to May 9th. This drought prevailed all over England and Wales as far north as Yorkshire and Lancashire, at a few stations in the south of Scotland, and over all Ireland, except the extreme north-west. No less than 61 stations out of the 100 recorded this drought.

The next occasion of a widespread absence of rain was from about June 28th to July 14th, when the north of England and Wales and the south of Scotland were mainly affected; 22 stations out of the 100 recording the drought.

A third period of widespread dry weather was experienced in the west of Great Britain, from about January 13th to February 2nd, this being reported from 20 out of the 100 stations. This, though first in the year, ranks third in order of the area affected; but the remarkable thing about it is that it was in the middle of winter and in a part of the country where the winter rainfall is usually large and frequent.

Partial droughts are by their nature less frequent than absolute droughts, and in 1917 there was only one occasion, in January and February, when large tracts of country experienced a long period with little rain. On that occasion the greater part of England, the south of Wales and a small area in the south-west of Scotland had a partial drought, 42 out of the 100 stations recording it.

In April and May the absolute drought was also included in a partial drought at some places, 12 out of the 100 stations recording it, mainly in the south and east of England.

The other instances quoted were of a local character and not widespread. There were only 46 stations out of 100 without a partial drought, against an average of 58, and as regards both classes of droughts we have to go back to 1911 to find a year more affected by dry periods. Absolute droughts have been more frequent since 1887, when the comparison began, only on 4 occasions, in 1887, 1899, 1901 and 1911, while partial droughts were more frequent on 9 occasions.

Droughts in 1917.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last-ed.	Began.	Ended.	Last-ed.	Rain.
ENGLAND & WALES			Days			Days	in.
St. Pancras (Camden Square) ..	Apr. 19	May 15	27	Jan. 17	Feb. 15	30	·30
London—2.				Apr. 16	May 15	30	·30
Tenterden (View Tower), *Kent*—1.	Apr. 19	May 12	24	May 24	June 21	29	·12
Brighton W.W. (Shoreham)	Apr. 19	May 12	24	Jan. 11	Feb. 15	36	·27
Sussex—3.				Apr. 18	May 16	29	·25
Sandown (Free Library) *Hants*.—1	Apr. 18	May 8	21	Jan. 11	Feb. 15	36	·36
Petersfield (Ditcham Pk.) *Hants*—5	Apr. 19	May 8	20	Jan. 12	Feb. 15	35	·32
Upton, *Berkshire*—5.	Apr. 19	May 8	20	Nov. 7	Dec. 7	31	·23
Newport Pagnell (The Croft)....	Apr. 22	May 8	17	Apr. 17	May 16	30	·27
Buckinghamshire—5.				Nov. 27	Dec. 28	32	·20
Cambridge (Sidney Street)......	Apr. 19	May 11	23	Jan. 14	Feb. 15	33	·33
Cambridgeshire—2.				Apr. 18	May 16	29	·15
				Nov. 27	Dec. 25	29	·28
Southend (Water Works)	Apr. 19	May 12	24	Jan. 17	Feb. 15	30	·29
Essex—3.				Apr. 18	May 15	29	·23
Lexden (Hill House)	Apr. 20	May 4	15	Apr. 17	May 15	29	·29
Essex—5.	May 30	June 17	19	May 30	June 27	29	·29
St. Olave's Priory	Apr. 22	May 14	23	Apr. 18	June 17	61	·60
Suffolk—4.	May 24	June 16	24				
Great Massingham, *Norfolk*—1. .	Apr. 20	May 11	22	Apr. 18	May 16	29	·09
Salisbury Pln., Shrewton, *Wilts*.—3	Apr. 18	May 8	21	Apr. 17	May 16	30	·27
Dorchester (Wollaston House) ..	Jan. 13	Feb. 2	21	Jan. 9	Feb. 15	38	·35
Dorsetshire—3.	Apl. 18	May 8	21				
Ashburton (Druid Ho) *S. Devon*—4	Apr. 19	May 8	20	Jan. 13	Feb. 15	34	·25
Martinhoe Rectory	Jan. 19	Feb. 2	15	None			
North Devon—1.	Apr. 19	May 8	20				
Morwenstow Vicarage	Jan. 15	Feb. 2	19	None			
Cornwall—1.	Apr. 19	May 8	20				
St. Austell (Trevarna)	Jan. 16	Feb. 3	19	Jan. 16	Feb. 16	32	·31
Cornwall—2.	Apr. 19	May 8	20				
Angersleigh (Leigh Court)	Apr. 18	May 8	21	Jan. 13	Feb. 18	37	·34
Somerset—3.							
Mickleton (Bank House)	Apr. 18	May 8	21	Jan. 13	Feb. 15	34	·32
Gloucestershire—4.							
Clifton (Harley Place)	Jan. 19	Feb. 3	16	Jan. 11	Feb. 15	36	·36
Gloucestershire—5.	Apr. 19	May 8	20				
Hereford (Holmer Hall)	Apr. 18	May 8	21	Jan. 11	Feb. 18	39	·29
Herefordshire—1.							
Shifnal (National Schools)	Apr. 22	May 8	17	Jan. 11	Feb. 18	39	·39
Shropshire—4.	June 29	July 14	16				
Mayfield House [Ashbourne] ...	Apr. 18	May 8	21	None			
Staffordshire—5.	June 29	July 14	16				
Leicester (Stoneygate Road) ...	Apr. 22	May 8	17	None			
Leicestershire—4.							
Spalding (Pode Hole)	Apr. 19	May 9	21	Jan. 17	Feb. 15	30	·30
Lincolnshire—2.				Apr. 18	May 16	29	·15
Spilsby (Ashby Road)	Apr. 19	May 11	23	None			
Lincolnshire—4.	Nov. 27	Dec. 14	18				
Worksop (Hodsock Priory)	Apr. 19	May 8	20	Jan. 15	Feb. 15	32	·32
Nottinghamshire—5.	June 29	July 14	16				

Droughts in 1917—*(continued).*

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain
ENGLAND & WALES—*(con.)*			Days			Days	in.
Northwich (Winnington)	Apr. 19	May 8	20	Jan. 13	Feb. 15	34	·32
Cheshire—2.	June 28	July 14	17				
St. Michael's-on-Wyre Vicarage .	June 28	July 12	15	Jan. 12	Feb. 15	35	·33
North Lancashire—5.							
Settle (Gas Works)	Apr. 19	May 8	20	Jan. 15	Feb. 15	32	·32
Yorkshire, West Riding—2.	June 28	July 14	17				
Meltham (Harewood Lodge) ...	Apr. 19	May 9	21	Jan. 21	Feb. 18	29	·27
Yorkshire, West Riding—8.	June 29	July 14	16				
Hull (Pearson Park)	June 29	July 14	16	None			
Yorkshire, East Riding—3.							
Felixkirk (Mount St. John)	June 29	July 14	16	Jan. 21	Feb. 18	29	·23
Yorkshire, North Riding—2.							
Sleights.....................	None			Sep. 3	Oct. 3	31	·31
Yorkshire, North Riding—6.							
Carlisle (Newby Grange)	Jan. 18	Feb. 1	15	Jan. 11	Feb. 16	37	·36
Cumberland—1.	June 24	July 14	21				
Kirkby Stephen (Redman Ho.) .	June 27	July 14	18	Jan. 17	Feb. 16	31	·30
Westmorland—1.							
Dungeon Ghyll	Jan. 18	Feb. 1	15	Jan. 14	Feb. 15	33	·32
Westmorland—2.	June 27	July 12	16				
Treherbert (Tyn-y-waun).......	Apr. 19	May 8	20	None			
Glamorgan—6.							
Carmarthen (The Friary).......	Jan. 14	Feb. 2	20	Jan. 13	Feb. 15	34	·33
Carmarthen—2.	Apr. 24	May 8	15				
Fishguard (Langton, Dwrbach) .	Jan. 13	Feb. 2	21	None			
Pembroke—4.	Apr. 21	May 8	18				
Aberystwyth (Gogerddan)	Jan. 13	Feb. 2	21	Jan. 13	Feb. 15	34	·30
Cardigan—2.	Apr. 20	May 9	20				
Birmingham W.W. (Tyrmynydd)	Apr. 18	May 8	21	Jan. 13	Feb. 18	37	·28
Radnor—1.							
Lake Vyrnwy................	Jan. 19	Feb. 15	28	Jan. 12	Feb. 18	38	·27
Montgomery—5.	Apr. 19	May 8	20				
	June 29	July 14	16				
Denbigh (Garn)	Jan. 18	Feb. 2	16	None			
Denbigh—2.	Apr. 20	May 8	19				
	June 4	June 18	15				
	June 28	July 14	17				
Abersoch....................	Jan. 14	Feb. 2	20	None			
Carnavon—4.	Apr. 19	May 9	21				
Llanerchymedd (Llwydiarth	Apr. 20	May 8	19	None			
Esgob), *Anglesey*	June 29	July 16	18				
Douglas (Clypse Reservoir)	Apr. 19	May 8	20	Jan. 13	Feb. 10	29	·20
Isle of Man.	June 26	July 10	15				
SCOTLAND.							
Whithorn (Cutroach)	Jan 12	Feb. 1	21	Jan. 12	Feb. 18	38	·35
Wigtown—4.							
Jardington [Dumfries]	Apr. 18	May 9	22	Jan. 11	Feb. 16	37	·19
Kircudbright—5.	June 27	July 14	18				
Marchmont House, *Berwick*—4. .	Apr. 21	May 7	17	None			
Balerno (Cockburn Hill)	Apr. 19	May 9	21	None			
Midlothian—5...							

Droughts in 1917—(*continued*).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended	Lasted.	Rain
SCOTLAND—(*con.*)			Days			Days	in.
Girvan (Pinmore), *Ayrshire*—8.	None			Jan. 14	Feb. 17	35	·31
New Cumnock (Ayr Sanatorium) *Ayrshire*—13.	June 24	July 14	21	None			
Stirling (Touch Reservoir) *Stirlingshire*—1.	None			Jan. 14	Feb. 16	34	·32
Rothesay (Ardencraig), *Bute*—1.	None			Jan. 11	Feb. 18	39	·36
Lochgilphead (Poltalloch) *Argyll*—8.	Jan. 13	Feb. 3	22	Jan. 12	Feb. 18	38	·36
Campbeltown (Witchburn) *Argyll*—10.	Jan. 21	Feb. 5	16	Jan. 12	Feb. 18	38	·36
Aberfeldy (Dall Avon), *Perth*—11.	None			Jan. 21	Feb. 19	30	·29
Fettercairn (The Burn) *Kincardine*—1.	None			Jan. 21	Feb. 18	29	·29
Logie Coldstone School *Aberdeen*—1.	May 14 June 30	May 28 July 15	15 16	None			
Muckerach Lodge [Grantown] *Inverness-shire*—3.	June 5	June 19	15	None			
Skye (Portree), *Inverness*—18.	Jan. 15	Jan. 29	15	None			
Dunrobin Castle *Sutherland*—2.	Jan. 18 June 25	Feb. 2 July 10	16 16	None			
Loch More (Achfary) *Sutherland*—5.	Jan. 15	Jan. 29	15	None			
IRELAND.							
Castletownshend (Seafield), *Cork*—6	Apr. 16	May 8	23	Apr. 11	May 9	29	·22
Mallow (Longueville), *Cork*—9.	Apr. 16	May 8	23	None			
Kenmare (Derreen), *Kerry*—4	Apr. 16	May 8	23	None			
Waterford (Brook Lodge) *Waterford*—3.	Apr. 18	May 8	21	None			
Nenagh (Castle Lough) *Tipperary*—1.	Apr. 19	May 8	20	Jan. 11	Feb. 15	36	·35
Cahir (Suirvale), *Tipperary*—3	Apr. 18	May 8	21	Apr. 11	May 9	29	·16
Killadysert (Paradise Hill) *Clare*—3.	Apr. 18	May 10	23	Jan. 11	Feb. 17	38	·33
Gorey (Courtown House) *Wexford*—4.	Apr. 18	May 8	21	None			
Abbey Leix (Blandsfort) *Queen's County*—2.	Apr. 18	May 8	21	None			
Straffan House *Kildare*—2	Apr. 18	May 8	21	None			
Kells (Headfort) *Meath*—4.	Apr. 18 June 24	May 8 July 10	21 17	Jan. 16 June 16	Feb. 15 July 14	31 29	·31 ·25
Moate (Coolatore), *Westmeath*—1.	Apr. 18	May 8	21	None			
Woodlawn, *Galway*—4	Apr. 18	May 8	21	None			
Crossmolina (Enniscoe), *Mayo*—2	Apr. 19	May 8	20	None			
Collooney (Markree Observatory) *Sligo*—2.	Apr. 19	May 8	20	None			
Belturbet (Cloverhill) *Cavan*—1	Apr. 19	May 8	20	Jan. 14	Feb. 18	36	·29
Seaforde *Down*—2.	Apr. 19 June 27	May 8 July 13	20 17	Jan. 16 June 8	Feb. 16 July 14	32 37	·26 ·37
Omagh (Edenfel), *Tyrone*—3	Jan. 22	Feb. 7	17	Jan. 14	Feb. 18	36	·26

RAIN SPELLS IN 1917.

THE definition of a Rain Spell adopted in 1903 is :—

A RAIN SPELL is a period of *more than* 14 consecutive days every one of which is a rain day.

The records examined are the same as those used in the case of droughts and the selected stations are as far as possible the same as in former years so that the results are comparable. The number of rain spells recorded at the 100 stations in 1917 was 152, or 17 fewer than the average in the 15 years, 1903-1917. The area affected was, however, normal, the number of stations which failed to record any rain spell during the year being 30, or exactly the average. The mean duration, 22 days, was also close to the average, the deficiency in the number of spells observed lying in the smaller number of stations recording 3 or more. Such stations lie always in the rainy regions of the west, where we may infer that prolonged rainy periods were less marked than usual. The stations with no rain spells in 1917 occupied two fairly well defined areas lying respectively in the south-east of England and in the south and east of Scotland.

Comparative Table of Rain Spells at 100 *Stations.*

Year.	No. of Rain Spells.	DURATION OF SPELLS. Mean.		DURATION OF SPELLS. Greatest.		STATIONS WITH			
		days.	Mean R per day. in.	days.	Mean R per day. in.	None.	1 or 2.	3 or 4.	5 or more.
1903...	282	22	·28	52	·51	11	41	26	22
1904...	152	19	·22	34	·27	31	51	11	7
1905...	121	19	·24	44	·38	45	39	12	4
1906...	125	21	·25	50	·40	38	47	11	4
1907...	177	21	·25	45	·17	38	30	18	14
1908...	159	19	·24	49	·43	21	59	12	8
1909...	110	19	·26	45	·12	36	52	12	0
1910...	235	21	·25	64	·30	24	34	25	17
1911...	185	22	·29	39	·15	19	50	23	8
1912...	198	22	·27	58	·19	29	32	30	9
1913...	128	21	·29	64	·19	44	34	19	3
1914...	150	22	·29	70	·28	30	44	25	1
1915...	132	20	·27	38	·25	34	47	16	3
1916...	231	20	·29	62	·28	19	41	28	12
1917...	152	22	·28	52	·19	30	48	17	5
Average	169	21	·26	51	·27	30	43	19	8

NOTE.—The values previous to 1910 have been increased to the equivalent of 100 stations for comparison.

A local rain spell of short duration occurred in the north of England, between about January 5th and 20th, chiefly remarkable for having extended to part of the English Midlands, where such phenomena are very rare ; another in the north and west of the British Isles in March and in some westerly districts in the first half of April, the two latter spells both occurring in the north of Ireland, but with these unimportant exceptions rain spells were confined to the last five months of the year. The first widespread rain spell occupied approximately the latter half of August and affected the whole of Ireland, about half of Scotland, and a strip of England and Wales extending from Cornwall to Cumberland, but excluding the west of Wales. In scattered areas this rain spell commenced considerably earlier than the middle of August, beginning in some instances as early as the 6th, and in one or two districts it continued until about September 4th, or even later. The mean rain per day was high, especially for a summer rain spell, reaching ·31 in. for the area as a whole, and ·92 in. at Dungeon Ghyll.

The west of Scotland and north-west coasts of Ireland experienced a short rain spell in September, lasting, as a rule, from about the 11th to the 27th. Western districts generally, except part of the West Highlands, were affected by a more important rainy period, occupying the first half of October. The mean rate of fall per day was, however, less than that in the great August rain spell. A few days after the end of this period, about October 20th, a fresh rain spell of variable length affected parts of Ireland and the west of Great Britain and overlapped a period of exceptional rainfall in the West Highlands, which yielded two rain spells of considerable intensity, the first lasting from about November 4th to December 2nd on the west coast of Scotland, the second from about November 15th to December 9th, rather more inland, and extending also to the north of Ireland. At Horn Head one great rain spell covered the whole period from October 22nd to December 10th.

The number of rain spells recorded during the year with a mean rainfall of ·40 in. or more per day was slightly fewer than usual, there being only 16, or 3 less than the average of the 15 years 1903-1917. The largest mean rate recorded, ·92 in., at Dungeon Ghyll, from August 14th to 29th. was in no way remarkable, judging by the figures observed in recent years.

Table of Rain Spells, 1917.

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
			Days	in.	in.	in.	in.
ENGLAND & WALES.							
Ashburton (Druid Ho.) *S. Devon.*—4.	Oct. 3	Oct. 18	16	5·14	·65	·02	·32
Martinhoe Rectory	Aug. 17	Sep. 1	16	4·54	·76	·01	·28
North Devon—1.	Oct. 2	Oct. 18	17	6·50	1·49	·01	·38
	Oct. 20	Nov. 3	15	3·03	·53	·01	·20
Morwenstow Vicarage	Mar. 27	Apr. 18	23	2·19	·38	·01	·10
Cornwall—1.	Oct. 2	Oct. 18	17	3·74	·50	·04	·22
	Oct. 21	Nov. 19	30	4·35	·63	·01	·14
St. Austell (Trevarna). *Cornwall*—2	Oct. 3	Oct. 18	16	5·20	·82	·07	·32
Clifton (Harley Place), *Glos'ter*—5	Oct. 2	Oct. 18	17	5·11	1·68	·02	·30
Hereford (Holmer Hall)	Aug. 17	Sep. 1	16	2·78	·76	·01	·17
Herefordshire—1.							
Mayfield House [Ashbourne]	Jan. 1	Jan. 17	17	3·00	·73	·01	·18
Staffordshire—5.	Aug. 16	Sep. 1	17	3·64	74	·02	·21
Spalding (Pode Hole), *Lincs.*—2	Oct. 6	Oct. 25	20	2·00	·38	·01	·10
Worksop (Hodsock Priory), *Notts.*—5	Jan. 5	Jan. 23	19	2·65	1·02	·01	·14
Northwich (Winnington) *Cheshire*—2	Aug. 16	Sep. 1	17	4·43	·91	·01	·26
Settle (Gas Works)	Jan. 5	Jan. 20	16	2·19	·53	·01	·14
Yorkshire, West Riding—2	Aug. 16	Sep. 2	18	5·33	·90	·02	·30
Meltham (Harew'd Lo), *Yks., W.R.*–8	Oct. 2	Oct. 18	17	4·88	1·14	·01	·29
Hull (Pearson Park), *Yorks., E.R.*—3	Jan. 5	Jan. 20	16	3·12	·90	·01	·19
Felixkirk (Mt. St. J.) *Yorks., N.R.*—2	Jan. 7	Jan. 21	15	3·31	·73	·02	·22
Sunderland (West Hendon House).	Jan. 7	Jan. 21	15	2·44	·51	·01	·16
Durham—2.	July 31	Aug. 18	19	4·02	·77	·01	·21
Carlisle (Newby Grange), *Cumbs.*—1	Aug. 8	Aug. 29	22	5·68	·85	·01	·26
Kirkby Stephen (Redman House)	Aug. 8	Sept. 2	26	9·41	1·50	·03	·36
Westmorland—1.							
Dungeon Ghyll	Aug. 14	Aug. 29	16	14·69	2·27	·08	·92
Westmorland—2.	Oct. 2	Oct. 17	16	8·20	1·38	·01	·51
Treherbert (Tyn-y-waun)	Feb. 16	Mar. 6	19	3·75	·76	·01	·20
Glamorgan—6.	Aug. 4	Sep. 2	30	17·88	2·10	·01	·60
	Oct. 2	Oct. 18	17	8·08	1·70	·01	·48
	Oct. 21	Nov. 11	22	8·79	2·06	·01	·40
Carmarthen (The Friary)	Aug. 7	Sep. 1	26	11·90	2·15	·01	·46
Carmarthen—2.	Oct. 2	Nov. 22	52	9·71	·70	·01	·19
	Nov. 24	Dec. 9	16	1·58	·38	·01	·10
Fishguard (Langton, Dwrbach)	Oct. 1	Oct. 17	17	4·32	·72	·01	·25
Pembroke—4.	Oct. 20	Nov. 11	23	3·74	·66	·01	·16
Aberystwyth (Gogerddan)	Oct. 2	Oct. 18	17	5·18	·77	·05	·30
Cardigan—2.							
Birmingham W. W. (Tyrmynydd)	Aug. 7	Sep. 1	26	13·95	2·00	·01	·54
Radnor—1.	Oct. 2	Oct. 18	17	6·18	1·03	·01	·36
Lake Vyrnwy	Aug. 15	Sept. 1	18	7·51	1·31	·01	·42
Montgomery—5.	Oct. 21	Nov. 9	20	6·35	1·28	·01	·32
Denbigh (Garn), *Denbigh*—2	Oct. 2	Oct. 18	17	5·04	·82	·01	·30
Abersoch	Apr. 4	Apr. 18	15	2·17	·49	·04	·14
Carnarvon—4.	Oct. 2	Oct. 18	17	5·36	·79	·03	·32
Llanerchymedd (Llwydiarth	Apr. 3	Apr. 19	17	1·52	·32	·01	·09
Esgob), *Anglesey*	Oct. 2	Nov. 2	32	8·43	1·11	.01	·26
Douglas (Clypse Reservoir)	Aug. 7	Aug. 29	23	7·75	1·59	·01	·34
Isle of Man.	Oct. 2	Oct. 30	29	6·91	·95	·01	·24

	Began.	Ended.	Days	in.	in.	in.	in.
SCOTLAND.							
Balerno(Cockburn Hill)*Midlothian*5	Aug. 8	Aug. 28	21	6·01	1·48	·01	·29
Girvan (Pinmore), *Ayrshire*—8	Sep. 10	Sep. 30	21	2·10	·67	·01	·10
New Cumnock (Ayr Sanatorium) *Ayrshire*—13.	Aug. 16	Sep. 3	19	4·95	·95	·01	·26
	Sep. 11	Sep. 27	17	2·63	·35	·01	·15
	Oct. 20	Nov. 11	23	8·86	1·50	·01	·39
	Nov. 18	Dec. 8	21	7·03	1·28	·02	·33
Stirling (Touch Res.)—*Stirling*—1.	Aug. 8	Aug. 28	21	6·02	1·11	·02	·29
Rothesay (Ardencraig) *Bute*—1.	Aug. 18	Sep. 3	17	3·40	1·40	·01	·20
	Sep. 10	Sep. 29	20	2·73	·65	·01	·14
	Nov. 11	Dec. 8	28	8·84	2·25	·01	·32
Lochgilpead (Poltalloch) *Argyll*—8.	Sep. 15	Sep. 29	15	2·87	·40	·02	·19
	Nov. 15	Dec. 8	24	9·38	2·80	·02	·39
Campbeltown (Witchburn) *Argyll*—10.	Aug. 16	Sep. 3	19	3·27	1·32	·01	·17
	Oct. 20	Nov. 9	21	8·50	1·21	·02	·40
	Nov. 20	Dec. 7	18	6·05	1·36	·03	·34
Islay (Eallabus) *Argyll*—14.	Oct. 1	Oct. 31	31	12·13	1·52	·01	·39
	Nov. 3	Dec. 9	37	12·81	1·57	·02	·35
Mull (Ulva) *Argyll*—14.	Mar. 15	Mar. 29	15	2·34	·74	·01	·16
	Aug. 14	Sep. 1	19	3·40	·52	·01	·18
	Sep. 10	Oct. 13	34	9·80	1·32	·01	·29
	Nov. 4	Dec. 9	36.	14·15	1·77	·03	·39
Logie Coldstone School *Aberdeen*—1.	Mar. 19	Apr. 2	15	1·46	·41	·01	·10
	Aug. 8	Aug. 25	18	1·91	·44	·01	·11
New Deer Schoolhouse *Aberdeen*—4.	Aug. 13	Aug. 31	19	4·02	1·16	·01	·21
	Nov. 19	Dec. 5	17	3·00	·55	·01	·18
Muckerach Lodge [Grantown] *Inverness-shire*—3.	Mar. 17	Apr. 6	21	2·82	·60	·02	·13
Drumnadrochit, *Inverness*—9.	Oct. 1	Oct. 15	15	2·75	·47	·04	·18
Loch Nevis (Inverie Gardens) *Inverness-shire*—12.	Mar. 15	Mar. 29	15	3·64	·88	·03	·24
	Aug. 9	Sep. 1	24	6·61	1·80	·03	·28
	Nov. 4	Dec. 2	29	17·20	1·80	·03	·59
Glenleven (Kinlochmore Gardens) *Inverness-shire*—17.	Mar. 14	Mar. 29	16	4·61	1·21	·01	·29
	Aug. 10	Sep. 3	25	11·82	1·59	·06	·47
	Sep. 10	Sep. 29	20	6·62	1·13	·04	·33
	Oct. 1	Oct. 18	18	6·72	·84	·03	·37
	Nov. 11	Dec. 2	22	19·58	4·05	·03	·89
Skye (Portree) *Inverness-shire*—18.	Aug. 14	Sep. 3	21	4·52	·50	·01	·22
	Sep. 10	Sep. 29	20	4·09	·53	·02	·20
	Oct. 1	Oct. 18	18	6·08	1·17	·02	·34
	Nov. 3	Dec. 2	30	10·66	1·00	·03	·36
	Dec. 11	Dec. 27	17	3·41	·77	·02	·20
Achnasheen (Ledgowan) *Ross-shire*—4.	Sep. 10	Sep. 29	20	6·67	1·40	·02	·33
	Nov. 8	Dec. 2	25	15·96	2·15	·02	·64
Dunrobin Castle, *Sutherland*—2	Aug. 16	Sep. 1	17	4·01	1·30	·03	·24
Loch More (Achfary) *Sutherland*—5.	Mar. 15	Apr. 19	36	9·13	·75	·04	·25
	Aug. 12	Sep. 3	23	8·10	2·04	·03	·35
	Sep. 6	Oct. 18	43	17·75	2·09	·01	·41
	Nov. 4	Dec. 2	29	16·79	3·62	·04	·58
Thurso (Buckies) *Caithness*—3.	Mar. 10	Apr. 5	27	3·56	·57	·02	·13
	Nov. 16	Dec. 2	17	7·01	1·55	·01	·41
IRELAND.							
Castletownshend(Seafield), *Cork*—6	Oct. 22	Nov. 9	19	2·57	·38	·01	·14
Mallow (Longueville) *Cork*—9.	Aug. 6	Sep. 1	27	6·96	2·25	·01	·26
	Oct. 3	Oct. 17	15	2·57	·36	·01	·17

IRELAND—(*con.*)	Begnn.	Ended.	Days	in.	in.	in.	in.
Kenmare (Derreen)	Aug. 5	Sep. 1	28	9·52	1·55	·02	·34
Kerry—4.	Oct. 1	Oct. 17	17	5·29	1·18	·03	·31
	Oct. 22	Nov. 9	19	4·85	·71	·02	·26
Waterford (Brook Lodge)	Aug. 14	Sep. 1	19	5·58	1·72	·02	·29
Waterford—3.							
Nemagh (Castle Lough)	Aug. 10	Sep. 1	23	8·09	1·80	·02	·35
Tipperary—1.	Oct. 1	Oct. 18	18	3·30	·59	·01	·18
Cahir (Suirvale)	Aug. 18	Sept. 1	15	5·02	1·62	·07	·33
Tipperary—3.	Oct. 3	Oct. 17	15	2·83	·50	·03	·19
	Oct. 22	Nov. 11	21	2·40	·26	·01	·11
Killadysert (Paradise Hill)	Aug. 10	Sep. 2	24	8·26	1·30	·03	·34
Clare—3.							
Gorey (Courtown House)	Aug. 15	Sep. 1	18	6·56	2·12	·01	·36
Wexford—4.	Oct. 23	Nov. 10	19	2·96	·68	·01	·16
Abbey Leix (Blandsfort)	Aug. 6	Sep. 1	27	9·44	1·72	·01	·35
Queen's County—2.							
Straffan House, *Kildare*—2	Aug. 7	Sep. 1	26	7·51	1·10	·03	·29
Kells (Headfort), *Meath*—4	Aug. 18	Sep. 1	15	3·41	·72	·02	·23
Moate (Coolatore)	Aug. 18	Sep. 5	19	4·75	1·00	·01	·25
Westmeath—1.	Oct. 1	Oct. 18	18	4·54	1·15	·01	·25
	Oct. 22	Nov. 11	21	3·63	·73	·01	·17
Ballynahinch Castle	Mar. 27	Apr. 18	23	3·65	·54	·03	·16
Galway—3.	Aug. 6	Sep. 3	29	10·39	1·04	·02	·36
	Sep. 10	Sep. 27	18	4·16	1·02	·01	·23
	Oct. 1	Nov. 2	33	11·68	1·11	·02	·35
Woodlawn	Aug. 14	Sep. 2	20	4·72	·75	·03	·24
Galway—4.	Oct. 1	Oct. 16	16	4·16	1·00	·04	·26
Crossmolina (Enniscoe)	Mar. 16	Apr. 18	34	5·89	·67	·03	·17
Mayo—2.	Aug. 6	Sep. 9	35	8·18	1·36	·02	·23
	Oct. 1	Oct. 17	17	4·93	·55	·10	·29
	Oct. 19	Nov. 2	15	5·06	1·14	·05	·34
Collooney (Markree Observatory)..	Aug. 5	Aug. 25	21	5·96	·87	·03	·28
Sligo—2.	Oct. 1	Oct. 20	20	6·32	·71	·03	·32
Seaforde. *Down*—2	Aug. 6	Aug. 26	21	6·74	·85	·02	·32
Ballymena (Harryville)	Mar. 17	Mar. 31	15	1·57	·33	·02	·10
Antrim—5.	Apr. 2	Apr. 18	17	4·56	1·50	·04	·27
	Aug. 16	Sep. 4	20	4·01	·70	·02	·20
	Oct. 2	Oct. 20	19	4·02	·56	·03	·21
	Nov. 19	Dec. 9	21	3·56	·70	·03	·17
Londonderry (Dunruadh)	Aug. 9	Sep. 8	31	5·44	·77	·01	·18
Londonderry—1.	Oct. 1	Oct. 20	20	4·79	·63	·02	·24
	Oct. 22	Nov. 11	21	5·93	·91	·01	·28
Omagh (Edenfel)	Feb. 18	Mar. 7	18	3·35	1·12	·01	·19
Tyrone—3.	Aug. 16	Sep. 3	19	2·76	·62	·01	·15
	Oct. 1	Oct. 30	30	8·36	·76	·01	·28
	Nov. 19	Dec. 4	16	3·41	·59	·01	·21
Dunfanaghy (Horn Head)........	Jan. 1	Jan. 16	16	3·04	·58	·01	·19
Donegal—3.	Mar. 17	Apr. 18	33	6·23	·69	·01	·19
	Aug. 7	Sep. 3	28	6·02	1·19	·01	·22
	Sep. 10	Sep. 30	21	2·40	·73	·01	·11
	Oct. 22	Dec. 10	50	12·05	·99	·01	·24
Killybegs (Rockmount)	Apr. 2	Apr. 18	17	3·87	·85	·01	·23
Donegal—5.	Aug. 6	Sep. 8	34	9·64	1·30	·01	·28
	Sep. 10	Sep. 28	19	4·53	1·13	·01	·24
	Oct. 1	Oct. 30	30	11·26	1·11	·02	·38
	Nov. 19	Dec. 4	16	5·22	1·09	·04	·33

DURATION OF RAINFALL IN 1917.

There continues to be an improvement in the distribution of stations for which we are able to publish records of rainfall duration, and we add this year several new records in exceptionally interesting positions. The total number of records available for 1917 was 56, an increase of 8 on 1916. Of these, 43 are in England, 4 in Wales, 6 in Scotland and 3 in Ireland. The improvement in Scotland is particularly encouraging, but we still have no station representative of the great area of high rainfall in the West Highlands, where records of rainfall duration would be of immense interest. The same remark applies to the very rainy districts of Wales and the English Lakes.

In examining the values of duration and of rate of rainfall per hour in the following tables it should be borne in mind that the records supplied by the Meteorological Office are (when not marked *) computed on a slightly different basis from the remainder, taking account only of rainfall at a greater rate than ·004 in. (0·1 mm.) per hour. Such records are distinguished by being printed in old style type.

Duration of Rainfall in 1917.

D Indicates daily values received. *Charts measured by the British RainfallOrganization.

*Shad Thames Pump. Stat., London.*D
London County Council.
N. and Z's. Hyetograph. 43 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	·98	46·5	·021
Feb.	·61	25·0	·024
March	1·48	67·3	·022
April	1·36	43·2	·032
May	3·10	27·3	·114
June	2.43	21·2	·115
July	3·98	75·5	·053
Aug.	3·14	61·8	·051
Sept.	1·43	27·7	·051
Oct.	2·64	60·8	·043
Nov.	1·31	31·7	·041
Dec.	·96	40·0	·024
Year	23·42	528·0	·044

*South Kensington, London.*D*
Meteorological Office.
Halliwell Recorder. 70 ft. above sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	·97	30·2	·032
Feb.	·72	15·0	·048
March	1·82	31·5	·058
April	1·71	36·5	·047
May	2·84	17·7	·161
June	2·77	20·1	·138
July	3·91	69·3	·056
Aug.	3·91	40·5	·097
Sept.	1·33	17·0	·078
Oct.	2·81	46·8	·060
Nov.	1·33	23·5	·057
Dec.	·97	33·0	·029
Year......	25·09	381·1	·066

Hampstead Observatory, London.

MR. E. L. HAWKE, F.R.Met.Soc.

N. and Z's Hyetograph. 451 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·25	(62·7)	(·020)
Feb.	1·06	(43·0)	(·025)
March	1·50	(67·9)	(·022)
April	2·43	56·5	·043
May	3·00	27·3	·110
June	3·87	24·0	·161
July	4·40	71·0	·062
August	4·33	86·1	·050
Sept.	2·18	36·4	·060
Oct.	3·44	80·4	·043
Nov.	1·84	47·2	·040
Dec.	·88	39·5	·022
Year	30·18	642·0	·047

Camden Square, London. D*

DR. H. R. MILL, F.R.Met.Soc.

Casella's Standard. 111 ft. above Sea

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·30	54·4	·024
Feb.	·93	23·7	·039
March	1·74	43·5	·040
April	2·20	44·2	·050
May	1·99	19·4	·103
June	5·29	16·9	·313
July	4·13	63·8	·065
Aug.	3·99	54·1	·074
Sept.	2·30	24·3	·095
Oct.	3·25	57·1	·057
Nov.	1·82	39·6	·046
Dec.	1·10	34·9	·032
Year	30·04	475·9	·063

Hill Crest, Dormans Park, Surrey. D*

MRS. H. R. MILL.

N. and Z's Hyetograph. 320 ft. above Sea.

	in.	hours.	in.
Jan.	1·53	53·1	·029
Feb.	·89	47·6	·019
March	1·97	38·2	·052
April	2·71	81·6	·033
May	2·76	35·0	·079
June	2·15	20·9	·103
July	4·13	85·5	·048
Aug.	6·32	118·8	·053
Sept.	2·42	45·6	·053
Oct.	4·63	80·2	·058
Nov.	1·85	31·3	·059
Dec.	2·57	51·9	·050
Year	33·93	689·7	·049

Edenfield, New Malden, Surrey.

MR. W. J. CARTER, F.R.Met.Soc.

Casella's Recorder. 39 ft. above Sea.

	in.	hours.	in.
Jan.	1·00	30·9	·032
Feb.	·72	29·9	·024
March	1·58	46·5	·034
April	2·18	54·9	·040
May	2·37	24·2	·098
June	2·21	26·4	·084
July	5·25	84·8	·062
Aug.	4·46	71·6	·062
Sept.	2·00	41·7	·048
Oct.	3·21	59·2	·054
Nov.	1·38	50·5	·027
Dec.	1·37	48·7	·028
Year	27·73	569·3	·049

Kew Observatory, Surrey.

METEOROLOGICAL OFFICE.

Beckley Gauge. 20 ft. above Sea.

	in.	hours.	in.
Jan.	1·12	26·6	·042
Feb.	·79	33·8	·023
March	1·75	29·9	·059
April	2·13	38·4	·055
May	2·04	25·7	·079
June	3·71	25·5	·146
July	4·71	69·4	·068
Aug.	4·12	54·0	·076
Sept.	2·03	30·9	·066
Oct.	3·39	57·2	·059
Nov.	1·32	32·5	·041
Dec.	1·18	36·2	·033
Year	28·29	460·1	·061

Capel, Kent.

MR. C. R. LYNN.

N. and Z's. Hyetograph. 501 ft. above Sea.

	in.	hours.	in.
Jan.	2·84	51·0	·056
Feb.	·98	13·0	·075
March	1·62	..	..
April	1·70	..	..
May	1·36	..	..
June	2·01	..	..
July	3·96	..	..
Aug.	5·90	59·0	·100
Sept.	·59	14·0	·042
Oct.	3·55	59·0	·060
Nov.	1·77	22·0	·080
Dec.	1·94	47·0	·041
Year	28·22	..	..

*The Old House, Sevenoaks, Kent.*D

Mr. W. Tattersall, F.R.Met.Soc.

N. and Z's. Hyetograph. 510 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·77	55·8	·032
Feb.	·93	39·5	·024
March	2·23	49·0	·046
April	2·87	87·5	·033
May	2·22	33·5	·066
June	2·98	43·5	·069
July	4·23	95·0	·045
Aug.	5·77	101·0	·057
Sept.	2·61	45·5	·057
Oct.	5·34	106·5	·050
Nov.	1·91	52·5	·036
Dec.	2·56	64·0	·040
Year	35·42	773·3	·046

*Isfield Place, Sussex.*D*

Major H. King.

N. and Z's. Hyetograph. 41 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·08	33·9	·032
Feb.	1·04	32·1	·032
March	1·79	42·3	·042
April	1·63	33·4	·049
May	1·67	21·7	·077
June	2·74	21·2	·129
July	2·50	38·3	·065
Aug.	7·89	(69·3)	·114
Sept.	1·14	29·5	·039
Oct.	4·85	78·7	·062
Nov.	1·70	30·1	·057
Dec.	2·50	(50·3)	·050
Year	30·53	480·8	·063

Beachy Head, Sussex.

Mr. W. A. Ogden.

N. and Z's. Hyteograph. 506 ft. above Sea.

	Rainfall	Duration	Rate per hour
	in.	hours.	in.
Jan.	1·20	17·2	·070
Feb.	·81	17·3	·105
March	1·42	29·7	·048
April	1·05	29·9	·035
May	1·29	17·7	·073
June	3·60	22·9	·113
July	3·42	32·5	·105
Aug.	6·27	34·8	·180
Sept.	1·63	13·6	·120
Oct.	4·87	54·7	·089
Nov.	1·93	34·9	·055
Dec.	2·04	54·4	·037
Year	29·53	359·6	·082

Timsbury, Hants.

Mr. D. Kitchingman, M.Inst.C.E.

N. & Z. Tipping-bucket. 90 ft. above Sea.

	Rainfall	Duration	Rate per hour
	in.	hours.	in.
Jan.	1·23	40·0	·031
Feb.	1·18	61·7	·019
March	3·31	78·2	·042
April	2·29	61·2	·037
May	1·77	50·2	·035
June	3·52	33·2	·106
July	4·50	83·2	·054
Aug.	5·00	103·0	·049
Sept.	2·19	56·0	·039
Oct.	3·94	87·5	·045
Nov.	·99	40·2	·025
Dec.	1·42	38·0	·037
Year	31·34	732·4	·043

Twyford, Hants.

Mr. D. Kitchingman, M.Inst.C.E.

N. & Z. Tipping-bucket. 139 ft. above Sea.

	Rainfall	Duration	Rate per hour
	in.	hours.	in.
Jan.	1·19	46·0	·026
Feb.	1·13	58·0	·019
March	2·78	79·7	·035
April	2·09	46·0	·045
May	1·92	32·5	·059
June	4·17	22·0	·190
July	4·26	65·7	·065
Aug.	4·58	102·0	·045
Sept.	1·73	44·7	·039
Oct.	4·50	99·0	·045
Nov.	·79	30·5	·026
Dec.	1·36	35·7	·038
Year	30·50	661·8	·046

Benson Observatory, Oxfordshire.

Meteorological Office.

Dines Gauge. 186 ft. above Sea.

	Rainfall	Duration	Rate per hour
	in.	hours.	in.
Jan.	1·20	37·8	·032
Feb.	·89	25·2	·035
March	1·73	30·1	·058
April	1·38	23·0	·060
May	1·47	17·7	·083
June	2·42	17·8	·136
July	4·17	54·9	·076
Aug.	4·83	49·0	·098
Sept.	1·42	27·5	·052
Oct.	3·10	50·2	·062
Nov.	·60	16·8	·036
Dec.	·92	28·0	·033
Year	24·13	378·0	·064

*Rookwood, Copdock, Suffolk.*D

MR. F. L. BLAND.
N. & Z's. Tipping-bucket. 164 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·86	64·5	·028
Feb.	·59	30·5	·019
March	2·57	44·5	·058
April	1·51	46·0	·033
May	1·26	11·5	·110
June	1·26	21·5	·059
July	2·45	54·0	·045
Aug.	4·13	87·5	·047
Sept.	1·18	27·5	·043
Oct.	3·69	66·0	·056
Nov.	1·63	36·5	·045
Dec.	1·56	46·0	·034
Year	23·69	536·0	·044

Lyngate Cottage, Worstead, Norfolk.

MR. ROBERT J. CROSS.
N. and Z's. Hyetograph. 55 ft. above Sea.

	in.	hours.	in.
Jan.	1·80	..	..
Feb.	1·02	..	..
March	2·69	..	..
April	2·29	..	..
May	·49	..	..
June	1·88	17·4	·108
July	2·78	31·3	·089
Aug.	3·96	57·2	·069
Sept.	1·60	27·3	·059
Oct.	3·58	52·0	·069
Nov.	2·28	37·4	·061
Dec.	1·00	26·9	·037
Year	25·37	..	..

*Freedom Park, Plymouth, Devon.*D*

MR. JAMES PATON, C.E.
N. and Z's. Hyetograph. 208 ft. above Sea.

	in.	hours.	in.
Jan.	2·16	56·0	·039
Feb.	1·73	43·8	·039
March	3·78	73·9	·051
April	1·27	42·0	·030
May	2·86	45·3	·063
June	2·83	40·7	·070
July	2·35	34·8	·068
Aug.	4·50	73·5	·061
Sept.	2·66	63·4	·042
Oct.	5·53	125·9	·044
Nov.	1·94	53·4	·036
Dec.	1·71	28·8	·057
Year	33·32	681·5	·049

Yarmouth, Norfolk.

MR. G. L. H. DOUGLAS-LANE.
N. and Z's. Hyetograph. 19 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·07	91·0	·023
Feb.	·95	61·5	·015
March	2·34	84·0	·028
April	2·05	72·5	·028
May	·50	28·5	·018
June	2·06	65·0	·032
July	3·03	78·5	·039
August	4·07	87·0	·047
Sept.	1·35	34·0	·040
Oct.	3·05	63·0	·048
Nov.	1·58	46·0	·034
Dec.	1·05	38·5	·027
Year	24·10	749·5	·032

*The Hoe, Plymouth, Devon.*D*

MR. JAMES PATON, C.E.
Halliwell Recorder. 117 ft above Sea.

	in.	hours.	in.
Jan.	1·88	56·0	·034
Feb.	1·68	39·7	.042
March	3·94	67·7	·058
April	1·24	41·9	·030
May	2·87	34·8	·082
June	2·51	34·8	·072
July	2·17	34·9	·062
Aug.	4·10	70·2	·058
Sept.	2·39	60·9	·039
Oct.	4·85	122·8	·039
Nov.	1·53	48·2	·032
Dec.	1·42	31·7	·045
Year	30·58	643·6	·048

Moretonhampstead Rectory, Devon. D

REV. S. D. DEWEY, F.R.Met.Soc.
N. and Z.'s. Hyetograph. 600 ft. above Sea.

	in.	hours.	in.
Jan.	1·51	25·6	·059
Feb.	·75	19·9	·038
March	4·69	64·7	·072
April	2·25	39·2	·057
May	2·59	34·6	·075
June	4·40	43·9	·100
July	2·13	25·5	·084
Aug.	5·87	72·0	·082
Sept.	1·68	30·6	·055
Oct.	5·92	77·8	·076
Nov.	2·29	33·9	·068
Dec.	1·52	28·2	·054
Year	35·60	495·9	·072

Dry Tree, Mullion, Cornwall.

MR. P. A. SMEE.

N. and Z's. Hyetograph. 370 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in
Jan.	2·80	90·0	·031
Feb.	1·07	37·8	·028
March	3·77	78·2	·048
April	1·23	48·0	·026
May	1·92	51·0	·038
June	2·76	67·5	·041
July	1·82	41·0	·044
Aug.	6·40	66·5	·096
Sept.	2·74	73·0	·038
Oct.	5·42	136·8	·040
Nov.	2·35	73·0	·032
Dec.	1·71	38·2	·045
Year	33·99	801·0	·042

*Falmouth Observatory, Cornwall.**

METEOROLOGICAL OFFICE.

Beckley Guage. 169 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·83	68·9	·041
Feb.	1·18	29·8	·040
March	4·33	74·7	·058
April	1·65	44·7	·037
May	2·48	53·7	·046
June	2·64	69·7	·038
July	1·30	39·3	·033
Aug. ..	6·26	94·7	·066
Sept.	2·16	81·1	·027
Oct.	7·40	143·7	·052
Nov.	2·16	51·1	·042
Dec.	1·81	31·1	·058
Year	36·20	782·5	·046

*Dollarward House, Cirencester, Glos.*D

MR. C. P. HOOKER, F.R.Met.Soc.

N. and Z's. Hyetograph. 366 ft. above Sea.

	in.	hours.	in.
Jan.	2·19	57·3	·038
Feb.	1·39	47·5	·029
March	2·97	69·2	·043
April	1·57	42·8	·037
May	3·14	48·1	·065
June	3·01	37·2	·081
July	2·55	42·1	·061
Aug.	6·62	107·9	·061
Sept.	2·42	49·1	·049
Oct.	4·22	92·2	·046
Nov.	·92	37·4	·025
Dec.	1·10	27·9	·039
Year	32·10	658·7	·049

*Mayfield House [Ashbourne], Staffs.*D

MR GRAHAM C. LAWSON.

Casella's Recorder. 374 ft. above Sea.

	in.	hours.	in.
Jan.	3·13	86·6	·036
Feb.	1·29	41·9	·031
March	2·06	56·5	·036
April	1·70	48·0	·035
May	2·51	42·5	·059
June	2·34	29·8	·079
July	1·52	21·0	·072
Aug.	6·17	108·0	·057
Sept.	1·46	36·0	·041
Oct.	5·56	95·1	·058
Nov.	3·44	71·2	·048
Dec.	1·52	48·0	·032
Year	32·70	684·6	·048

Cranwell, Lincoln.

MR. NORMAN L. SILVESTER.

N. and Z's. Hyetograph. 237 ft. above Sea.

	in.	hours.	in.
Jan.	1·92	64·5	·030
Feb.	·78	32·3	·024
March	1·12	20·1	·056
April	·93	34·6	·027
May	1·75	16·7	·105
June	·99	12·1	·082
July	·69	31·2	·022
Aug.	3·89	54·6	·071
Sept.	1·01	29·5	·034
Oct.	2·80	42·2	·066
Nov.	1·12	38·2	·029
Dec.	·53	20·4	·026
Year	17·53	396·4	·044

Trent Lane, Nottingham.

MR. A. BROWN, M.Inst.C.E., F.R.Met.Soc.

Halliwell Recorder. 85 ft. above Sea.

	in.	hours.	in.
Jan.	2·00	48·5	·041
Feb.	·81	19·3	·042
March	1·26	25·0	·050
April	1·28	23·2	·055
May	2·07	25·2	·082
June	1·80	18·8	·096
July	1·21	9·7	·125
Aug.	4·31	51·6	·084
Sept.	1·38	24·0	·058
Oct.	3·27	43·0	·076
Nov.	·93	19·0	·049
Dec.	·72	13·3	·053
Year	21·04	320·6	·066

*Hodsock Priory, Nottinghamshire.*D

LT.-COL. H. MELLISH, C.B., F.R.Met.Soc.
Halliwell Recorder. 56 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·73	64·8	·042
Feb.	·58	23·4	·025
March	1·89	33·5	·056
April	1·46	34·0	·043
May	1·86	24·5	·076
June	1·49	19·9	·075
July	·68	13·0	·052
Aug.	4·75	57·5	·083
Sept.	·57	17·9	·032
Oct.	2·28	36·0	·063
Nov.	·97	16·6	·058
Dec.	·97	29·6	·033
Year	20·23	370·7	·055

*Bidston Observatory, Cheshire.*D

·MERSEY DOCKS AND HARBOUR BOARD.
Osler's Guage. 189 ft. above Sea

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·54	46·7	·033
Feb.	1·72	42·4	·041
March	2·89	62·2	·046
April	2·25	56·8	·040
May	3·45	58·1	·059
June	1·70	41·8	·041
July	1·24	25·5	·049
Aug.	5·72	100·7	·057
Sept.	1·13	31·3	·036
Oct.	5·30	128·9	·041
Nov.	2·30	83·4	·028
Dec.	1·35	43·4	·031
Year	30·59	721·2	·042

"Myra," Blundellsands, Lancashire.

MR. HUGH MONTGOMERY, F.R.Met.Soc.
N. and Z's. Hyetograph. 35 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·61	58·0	·028
Feb.	1·36	35·5	·038
March	3·25	70·0	·046
April	1·54	42·0	·037
May	2·94	58·0	·051
June	1·62	30·7	·053
July	1·22	16·8	·073
Aug.	6·39	118·5	·054
Sept.	1·61	33·2	·048
Oct.	5·96	86·0	·069
Nov.	2·94	91·8	·032
Dec.	1·62	32·2	·050
Year	32·06	672·7	·048

Queens Park, Bolton, Lancashire.

MR. THOS. MIDGLEY, F.R.Met.Soc.
Casella's Recorder. 342 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3·40	68·0	·050
Feb.	1·73	20·5	·084
March	2·83	36·5	·078
April	2·37	41·2	·057
May	2·40	30·5	·079
June	2·54	33·5	·076
July	2·54	27·0	·094
Aug.	7·87	148·5	·053
Sept.	2·38	40·8	·058
Oct.	8·86	129·0	·069
Nov.	6·01	122·8	·049
Dec.	2·67	82·0	·033
Year	45·60	780·3	·058

Worden Hall, Leyland, Lancashire.

MR. H. NOWELL FFARINGTON, F.R.Met.Soc.
N. and Z's. Hyetograph. 125 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·49	66·2	·038
Feb.	1·22	37·6	·032
March	2·31	51·6	·045
April	1·65	54·9	·030
May	2·13	41·6	·051
June	2·25	43·2	·052
July	1·61	23·5	·069
Aug.	5·76	100·5	·057
Sept.	2·06	32·6	·063
Oct.	7·36	113·8	·065
Nov.	3·92	72·6	·054
Dec.	2·20	60·5	·036
Year	34·96	698·6	·050

*Hesketh Park, Southport, Lancashire.*D

MR. J. BAXENDELL, F.R.Met.Soc.
N. and Z's. Fernley gauge. 39 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·94	59·7	·032
Feb.	1·10	45·1	·024
March	3·26	66·3	·049
April	1·64	45·7	·036
May	2·66	58·0	·046
June	2·03	33·1	·061
July	·93	17·7	·053
Aug.	6·12	102·6	·060
Sept.	2·34	41·7	·056
Oct.	6·73	89·1	·076
Nov.	3·33	70·0	·048
Dec.	1·63	40·9	·040
Year	33·71	669·9	·050

*Greg Observatory, Lancaster, Lancs.*D*

MR. NEVILLE HOLDEN, *per* M.O.

Beckley Gauge. 312 feet above sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·58	95·4	·027
Feb.	1·27	91·0	·014
March	2·62	62·2	·042
April	1·87	49·0	·038
May	2·28	57·9	·039
June	3·31	64·6	·051
July	1·41	45·0	·031
Aug.	8·64	147·1	·059
Sept.	4·45	65·1	·068
Oct.	6·22	139·1	·045
Nov.	5·17	145·0	·036
Dec.	2·26	112·0	·020
Year	42·08	1073·4	·039

Huddersfield Cemetery, Yorkshire.

MR. J. FIRTH.

Halliwell Recorder. 410 ft. above Sea.

	in.	hours.	in.
Jan.	2·60	98·2	·027
Feb.	·89	33·9	·026
March	3·29	65·4	·050
April	2·43	54·2	·045
May	2·81	37·3	·075
June	1·76	32·0	·055
July	1·37	27·3	·050
Aug.	6·20	80·5	·077
Sept.	1·26	32·6	·039
Oct.	5·68	97·4	·058
Nov.	3·54	104·1	·034
Dec.	2·40	62·0	·039
Year	34·23	724·9	·047

*Lower Laithe Res., Haworth, Yorks.*D

MR. M. R. BARNETT, M.Inst.C.E.

N. and Z's. Hyetograph. 772 ft. above Sea

	in	hours.	in.
Jan.	3·37	120·9	·028
Feb.	·76	66·7	·011
March	3·88	108·3	·036
April	2·66	80·3	·033
May	2·42	51·5	·047
June	2·52	55·5	·045
July	1·74	42·6	·041
Aug.	6·69	122·3	·055
Sept.	2·47	48·9	·051
Oct.	8·77	159·1	·055
Nov.	5·71	179·1	·032
Dec.	2·39	104·1	·023
Year	43·38	1139·3	·038

Barrow, Walney I., Lancashire.

MR. H. F. JACKSON.

N. and Z's. Hyetograph. 70 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·67	57·3	·029
Feb.	1·14	37·4	·030
March	2·30	51·3	·045
April	1·02	41·0	·025
May	3·37	81·0	·042
June	2·48	40·0	·062
July	1·16	30·0	·039
Aug.	7·41	150·0	·049
Sept.	2·92	71·0	·041
Oct.	9·26	138·0	·067
Nov.	3·86	95·6	·040
Dec.	2·20	55·6	·040
Year	38·79	848·2	·046

Earby Sewage Works, Yorkshire. D.

MR. J. E. ALDERSLEY.

N. and Z's. Hyetograph. 425 ft. above Sea.

	in.	hours.	in.
Jan.	2·39	73·1	·033
Feb.	·93	38·0	·024
March	2·63	39·2	·067
April	1·86	36·1	·052
May	1·78	27·2	·065
June	2·64	39·7	·067
July	2·12	20·3	·104
Aug.	6·27	86·8	·072
Sept.	2·55	41·6	·060
Oct.	6·87	114·9	·060
Nov.	3·68	78·8	·047
Dec.	1·68	56·2	·030
Year	35·40	651·9	·054

*Town Hall, Skipton, Yorkshire.*D

MR. A. E. W. ALDRIDGE.

N. and Z's. Hyetograph. 367 ft. above Sea.

	in.	hours.	in.
Jan.	2·39	58·3	·041
Feb.	·60	18·7	·032
March	2·40	39·0	·062
April	2·12	33·3	·064
May	1·76	27·7	·064
June	1·75	38·5	·045
July	1·72	20·2	·085
Aug.	6·54	75·2	·087
Sept.	2·45	40·3	·061
Oct.	5·08	85·5	·059
Nov.	2·85	63·7	·045
Dec.	1·93	52·3	·037
Year	31·59	552·7	·057

Howden, Yorkshire, E.R.

MR. G. HARRIS.

N. and Z's. Hyetograph. 201 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·54	76·6	·033
Feb.	·79	32·8	·024
March	1·37	32·1	·043
April	1·44	63·8	·023
May	·96	22·5	·043
June	1·44	31·2	·046
July	1·08	25·0	·043
Aug.	4·57	87·1	.052
Sept.	·79	25·5	·031
Oct.	3·10	80·5	·038
Nov.	1·40	48·6	·029
Dec.	1·09	21·2	·051
Year	20·57	546·9	·038

Mount St. John, Thirsk, Yorkshire. D

MR. A. J. WALKER, F.R.Met.Soc.

Halliwell Recorder. 542 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3·68	102·6	·036
Feb.	·80	33·3	·024
March	2·95	64·8	·046
April	1·73	41·4	·042
May.......	·96	21·6	·044
June	1·77	31·1	·057
July	1·35	31·9	·042
Aug.	7·08	109·8	·064
Sept.	·64	12·6	·051
Oct.	3·24	64·2	·050
Nov.	1·93	43·3	·045
Dec.	1·75	47·3	·037
Year	27·88	603·9	·046

Mount St. John, Thirsk, Yorkshire. D

MR. A. J. WALKER, F.R.Met.Soc.

Newey Recorder. 542 ft. above Sea.

	in.	hours.	in.
Jan.	3·68	93·7	·039
Feb.	·80	35·1	·023
March	2·95	59·6	·049
April	1·73	48·3	·036
May.......	·96	21·4	·045
June	1·77	36·8	·048
July	1·35	33·7	·040
Aug.	7·08	120·1	·059
Sept.	·64	14·4	·044
Oct.	3·24	65·2	·050
Nov.	1·93	48·4	·040
Dec.	1·75	42·5	·041
Year	27·88	619·2	·045

Mount St. John, Thirsk, Yorkshire. D

MR. A. J. WALKER, F.R.Met.Soc.

Lander & Smith's Gauge. 542 ft. above Sea.

	in.	hours.	in.
Jan.	3·68	83·8	·044
Feb.	·80	34·5	·023
March	2·95	56·4	·052
April	1·73	44·1	·039
May.......	·96	22·2	·043
June	1·77	35·1	·050
July	1·35	34·0	·040
Aug.	7·08	117·8	·060
Sept.	·64	12·9	·050
Oct.	3·24	57·3	·057
Nov.	1·93	43·1	·045
Dec.	1·75	37·3	·047
Year	27·88	578·5	·048

Mount St. John, Thirsk, Yorkshire. D

MR. A. J. WALKER, F.R.Met.Soc.

N. and Z's. Hyetograph. 542 ft. above Sea.

	in.	hours.	in.
Jan.	3·68	96·4	·038
Feb.	·80	31·1	·026
March	2·95	60·4	·049
April	1·73	46·2	·037
May	·96	22·1	·043
June	1·77	29·6	·060
July	1·35	27·3	·050
Aug.	7·08	110·0	·064
Sept.	·64	11·6	·055
Oct.	3·24	62·5	·052
Nov.	1·93	41·4	·047
Dec.	1·75	43·6	·040
Year	27·88	582·2	·048

Pembroke, Pembrokeshire.

MR. R. M. B. MACKENZIE.

N. and Z's. Hyetograph. 103 ft. above Sea

	in.	hours.	in.
Jan.	1·31	34·7	·038
Feb.	1·99	34·6	·058
March	3·22	61·2	·052
April	1·28	43·0	·030
May.......	2·93	47·2	·062
June	3·04	60·5	·050
July	3·96	45·4	·087
Aug.	8·45	128·7	·066
Sept.	2·03	81·5	·025
Oct.	5·04	152·3	·033
Nov.	3·17	121·0	·026
Dec.	1·23	43·0	·029
Year	37·65	853·1	·044

Cray Reservoir, Breconshire.

Lt. G. R. Collinson, C.E.
Halliwell Recorder. 1030 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2·29	62·2	·037
Feb.	1·63	57·2	·029
March	4·83	118·3	·041
April	3·97	133·0	·030
May	4·36	86·8	·050
June	3·85	104·6	·037
July	4·36	72·9	·060
Aug.	16·01	211·0	·076
Sept.	3·11	86·8	·036
Oct.	9·31	147·6	·063
Nov.	5·30	176·2	·030
Dec.	2·60	93·5	·028
Year	61·62	1350·1	·046

Aber Clyd, Black Mtns., Breconshire. D*

The Referees, Abertillery W.B. Act.
N. and Z's. Hyetograph. 1880 ft. above Sea

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	(3·20)	(55·0)	·058
Feb.	1·73	31·4	·055
March	(6·10)	(95·7)	·064
April	(4·34)	86·2	·050
May	7·06	78·0	·090
June	3·39	54·2	·063
July	3·18	41·5	·077
Aug.	11·13	166·0	·067
Sept.	3·54	61·6	·057
Oct.	6·59	107·1	·062
Nov.	2·61	61·7	·042
Dec.	1·62	(36·1)	·045
Year	54·49	874·5	·062

Llangefni, Anglesey.

Mr. P. T. Creswell.
N. and Z's. Hyetograph. 189 ft. above Sea.

	in.	hours.	in.
Jan.	2·21	50·1	·044
Feb.	1·76	39·9	·044
March	2·07	38·5	·054
April	2·78	43·0	·065
May	3·81	57·8	·066
June	2·05	41·4	·050
July	1·38	20·9	·066
August	9·50	92·3	·103
Sept.	3·29	58·7	·057
Oct.	8·13	96·0	·085
Nov.	2·80	61·3	·046
Dec.	3·36	51·8	·065
Year	43·14	651·7	·066

Luce Bay, Wigtownshire.

Mr. J. H. Grills.
N. and Z's. Hyetograph. 50 ft. above Sea.

	in.	hours.	in.
Jan.	3·28	77·5	·042
Feb.	1·68	52·7	·032
March	1·61	43·5	·037
April	1·81	41·9	·043
May	3·69	59·3	·062
June	1·88	46·8	·040
July	2·17	47·4	·046
Aug.	3·15	81·3	·039
Sept.	2·55	59·6	·043
Oct.	8·74	101·1	·086
Nov.	5·07	92·9	·055
Dec.	4·22	57·7	·073
Year	39·85	761·7	·052

Eskdalemuir Obsy., Dumfries.

Meteorological Office.
Beckley Gauge. 799 ft. above Sea.

	in.	hours.	in.
Jan.	4·58	(107·7)	·042
Feb.	1·16	60·1	·019
March	2·76	(56·4)	·049
April	4·83	98·1	·049
May	4·03	83·4	·048
June	3·20	55·7	·058
July	2·65	39·3	·067
Aug.	8·72	134·2	·065
Sept.	5·66	116·5	·049
Oct.	7·63	132·4	·058
Nov.	6·45	136·0	·047
Dec.	3·71	99·2	·037
Year	55·38	1119·0	·050

Pinewood, Crathes, Kincardineshire. D

Lieut. James Smith.
N. and Z's. Hyetograph. 142 ft. above Sea.

	in.	hours.	in.
Jan.	2·67	67·7	·039
Feb.	1·02	20·0	·051
March	2·67	82·5	·032
April	1·43	38·3	·037
May	1·56	71·3	·022
June	1·61	24·9	·065
July	1·96	49·8	·039
Aug.	4·54	65·3	·070
Sept.	1·53	33·1	·046
Oct.	3·50	93·9	·037
Nov.	3·08	67·7	·045
Dec.	1·21	36·5	·033
Year	26·78	651·0	·041

Aberdeen, King's College, Aberdeen.

METEOROLOGICAL OFFICE.
Beckley Gauge. 44 ft. above Sea.

1917.	Rainfall.	Duratian.	Rate per hour.
	in.	hours.	in.
Jan.	3·01	68.6	·044
Feb.	·98	34·2	·029
March	1·87	50·7	·037
April	1·61	38·4	·042
May	1·39	50·1	·028
June	1·41	20·9	·067
July	3·66	36·6	·100
Aug.	3·81	59·1	·064
Sept.	1·78	36·4	·049
Oct.	3·74	80·8	·046
Nov.	3·63	86·4	·042
Dec.	1·27	30·3	·042
Year	28·16	592·5	·047

Longside, Aberdeenshire.

MR. T. R. GARRIGAN.
N. and Z's. Hyetograph. 223 ft. above Sea.

1917.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3·18	116·0	·028
Feb.	1·23	67·0	·018
March	2·82	49·5	·057
April	2·17	42·5	·051
May	1·31	27·3	·048
June	1·46	18·5	·079
July	2·77	46·7	·059
Aug.	4·01	66·3	·060
Sept.	1·88	49·0	·038
Oct.	4·92	108·0	·046
Nov.	4·31	99·0	·043
Dec.	2·63	63·3	·042
Year	32·69	752·1	·043

Houton Bay, Orkney.

MR. W. B. DANIELS.
N. and Z's. Hyetograph. 201 ft. above Sea.

	in.	hours.	in.
Jan.	..	..	..
Feb.	..	..	..
March	..	..	..
April	..	..	..
May	..	..	..
June	..	..	..
July	..	..	..
Aug.	..	..	..
Sept.	..	..	..
Oct.	6·37	108·0	·059
Nov.	5·88	93·8	·063
Dec.	3·21	57·0	·056
Year	..	..	..

*University College, Cork.*D*

PROF. ISAAC SWAIN.
N. and Z's. Hyetograph. 66 ft. above Sea.

	in.	hours.	in.
Jan.	3·97	49·2	·081
Feb.	1·45	34·3	·042
March	3·32	45·0	·074
April	1·12	22·5	·050
May	4·05	80·1	·051
June	1·77	29·3	·060
July	1·57	31·7	·050
Aug.	6·54	87·5	·075
Sept.	1·29	27·4	·047
Oct.	3·51	81·3	·043
Nov.	1·08	26·9	·040
Dec.	2·66	49·0	·054
Year	32·33	564·2	·057

Valencia Observatory, Co. Kerry.

METEOROLOGICAL OFFICE.
Beckley Gauge. 30 ft. above Sea.

	in.	hours.	in.
Jan.	3·40	64·3	·053
Feb.	3·17	48·3	·066
March	4·57	69·1	·066
April	1·46	32·6	·045
May	3·07	46·8	·066
June	3·53	54·7	·065
July	5·77	78·6	·073
Aug.	8·54	85·1	·100
Sept.	2·16	58·4	·037
Oct.	7·93	131·6	·060
Nov.	2·86	63·0	·045
Dec.	4·15	69·8	·060
Year	50·61	802·3	·063

Armagh Observatory, Co. Armagh.

METEOROLOGICAL OFFICE.
Beckley Gauge. 210 ft. above Sea.

	in.	hours.	in.
Jan.	1·71	52·7	·032
Feb.	2·64	46·1	·057
March	2·66	93·0	·029
April	1·47	58·6	·025
May	1·89	40·3	·047
June	2·72	55·6	·049
July	2·45	50·0	·049
Aug.	4·40	72·4	·061
Sept.	1·66	47·9	·035
Oct.	4·39	71·8	·061
Nov.	3·74	65·2	·057
Dec.	1·50	41·8	·036
Year	31·23	695·1	·045

Comparison of Amount, Duration and Intensity of Rainfall, and Number of Rain Days at Camden Square in 1917 *with the Average for* 36 *years,* 1881-1916.

YEAR.	AMOUNT.		DURATION.		INTENSITY.		RAIN DAYS	
	Total.	Per cent. of average	Total.	Per cent. of average	Rate per Hour.	Per cent. of average	Total.	Per cent. of average
	in.		hours		in			
1881	27·92	113	486·3	110	·057	102	152	93
1882	27·14	110	480·7	109	·056	100	165	101
1883	24·40	99	393·5	89	·062	111	164	101
1884	20·35	82	336·8	76	·060	107	150	92
1885	26·64	108	470·0	106	·057	102	165	101
1886	27·01	110	427·2	97	·063	112	176	108
1887	19·21	78	300·3	68	·064	114	140	86
1888	27·74	113	435·7	99	·064	114	173	106
1889	23·85	97	428·5	97	·056	100	169	104
1890	21·23	86	409·5	92	·052	93	161	99
1891	28·15	114	490·3	111	·057	102	178	109
1892	22·61	91	372·5	84	·061	109	158	97
1893	19·80	80	388·0	88	·051	91	148	91
1894	27·94	113	477·7	108	·058	104	185	114
1895	21·47	87	380·0	86	·057	102	137	84
1896	23·52	95	404·3	91	·058	104	159	97
1897	22·86	93	371·2	84	·062	111	164	101
1898	*m* 17·69	72	*m* 298·5	67	·059	105	140	86
1899	22·54	91	337·5	76	·067	120	144	88
1900	23·28	94	366·3	83	·064	114	174	107
1901	22·17	90	310·2	70	M ·071	127	*m* 128	79
1902	20·84	84	352·5	80	·059	105	162	100
1903	M 38·10	154	M 688·5	155	·055	98	179	110
1904	20·65	84	491·8	111	*m*·042	75	160	99
1905	22·97	93	456·4	103	·050	89	162	100
1906	24·26	98	420·4	95	·058	104	163	100
1907	23·01	93	418·8	95	·055	98	175	107
1908	23·67	96	500·7	113	·047	84	157	96
1909	26·75	108	576·5	130	·046	82	190	116
1910	25·36	103	491·2	111	·052	93	186	114
1911	24·79	100	473·0	107	·052	93	155	95
1912	27·88	113	516·2	117	·054	96	180	111
1913	22·41	91	453·0	103	·049	87	163	100
1914	25·72	104	513·6	116	·050	89	168	103
1915	32·18	131	568·9	129	·057	99	152	93
1916	34·01	138	627·8	142	·054	96	M 193	119
Average.	24·73	100	442·1	100	·056	100	163	100
1917	30·04	122	475·9	108	·063	112	175	107
Diff. from average	+ 5·31	+22	+33·8	+8	+ ·007	+12	+12	+7

The above table shows that at Camden Square the mean rate of fall per hour was 12 per cent. above the average, 1917 being the first year since 1906 with an intensity value in excess of the average.

HEAVY RAINS IN SHORT PERIODS IN 1917.

In Table III. at the end of this section we give as usual a list of all the intense short period rainfalls in 1917 which have been brought to our notice and which reach the limits set out in Table I. The falls coming under the heading of "remarkable" and "very rare" are indicated by one and two crosses, respectively, as in previous years.

TABLE I.—*Limits of Exceptional Falls.*

Minutes.	Worthy of Notice.		Remarkable.		Very Rare.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Rate per hour.
	in.	in.	in.	in.	in.	in.
10.........	·30	1·80	·65	3·90	1·00	6·00
20.........	·53	1·59	1·06	3·18	1·58	4·74
30.........	·70	1·40	1·35	2·70	2·00	4·00
40.........	·82	1·23	1·54	2·31	2·26	3·39
50.........	·92	1·10	1·67	2·00	2·42	2·90
60.........	1·00	1·00	1·75	1·75	2·50	2·50
70.........	1·07	·92	1·81	1·55	2·54	2·18
80.........	1·12	·84	1·85	1·39	2·57	1·93
90.........	1·15	·77	1·89	1·26	2·60	1·73
100.........	1·18	·71	1·92	1·15	2·62	1·57
110.........	1·21	·66	1·93	1·05	2·64	1·44
120.........	1·23	·61	1·94	·97	2·65	1·33

The total number of "noteworthy" rainfalls of two hours' duration or less was close to the normal, the percentage of the total number of records being 1·0, or exactly the average.

Number of Noteworthy Rains of two hours duration or less.

	England and Wales.					Scotland.	Ireland.	British Isles.	Per cent. of records received.
	S.E.	S.W.	N.E.	N.W.	Total.				
Average. 1868-1916.	15·5	7·3	4·2	2·0	29·0	2·2	1·1	32·3	1·0
1917.	33	8	7	3	51	2	1	54	1·0

There is only one "very rare" rainfall of not more than an hour's duration to be added to the historical list of such falls since the year 1868, and in order to save space we place it on record without reprinting the remainder of the list, for which the reader is referred to *British Rainfall, 1916*, p. [40]. This fall of ·47 in. in 2½ minutes was recorded at Norwich on July 14th, by Mr. J. H. Willis with a Casella recording rain gauge checked by a Snowdon, and may be accepted as of high accuracy. The storm was accompanied by hailstones of exceptional size, measuring 3½ to 4 inches in circumference.

TABLE II.—*Rainfalls of* very rare *Intensity lasting for one hour or less.*

Year.	Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
				in.	hr. min.	in.
1917	July 14	IV.	Norwich, Ipswich Road	·47	0 2½	11·28

All the remaining "very rare" rainfalls of 1917 occurred during the unprecedented thunderstorm of June 16th in London. The time occupied by this rainfall was from 1½ to 2½ hours so that the records are excluded from Table II., which refers only to falls of 1 hour or less. We are fortunate in being able to quote several independent measurements, including that of 2·86 in. in 2 hours 15 minutes, by the Casella Standard recording gauge at Camden Square, with an intermediate measurement of 2·75 in. in 1 hour 53 min., representing the most intense phase of the storm. Even more remarkable were the records of 2·75 in. in 1 hour 30 minutes and of 3·10 in. in 2 hours at two stations at Hammersmith, and of 4·65 in. in less than 2 hours 30 minutes, at Campden Hill. The last mentioned is one of the most extreme instances of prolonged intense rainfall ever observed in the British Isles, and we regret that no exact record of the duration appears to have been kept; there is no doubt, however, that the time occupied did not exceed the 2½ hours quoted. Further particulars of this storm are given in the section on heavy rains on rainfall days in this volume.

The "remarkable" category of heavy rainfalls in 1917 includes two readings on May 29th, of 1·50 in. in 30 minutes, at Seale, near Farnham, and of 1·92 in. in 1 hour, at Leyton. On June 12th, 1·81 in. fell in 35 minutes, at Munsted Heath, near Godalming, and on June 13th ·55 in. in 6 minutes at Ushaw, near Durham. On June 18th, ·85 in. fell in 8 minutes at Abbey Mills. This month was unusually productive of intense rainfalls.

The great rainstorm of June 28th, in the south-west of England, produced only one record of noteworthy intensity, 1·41 in. falling in 1 hour 45 minutes at Ashley, Hampshire : and the extraordinary rains of July 29th to August 3rd, in the south-east of England, were also represented by one record only, 2·30 in. falling in 2 hours at Langley, near Slough, on July 29th.

Taking the year's records as a whole it may be said that whilst intense rainfalls were not unusually numerous several of the instances were of a very exceptional character.

TABLE III.—*Heavy Rains in Short Periods in* 1917.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
May 22	VI.	Bishops Castle, Castle Street........	·18	0	2	5·40x
Aug. 18	V.	Salisbury Plain, Shrewton	·09	0	2	2·70
July 14	IV.	Norwich, Ispwich Road	·47	0	2½	11·28xx
June 7	VIII.	Southport, Hesketh Park	·16	0	3	3·20
Aug 23	V.	Salisbury Plain, Shrewton	·20	0	3½	3·43
Sept. 5	I.	St. Pancras, Camden Square	·22	0	4	3·30
Aug. 17	VIII.	Bolton, Queen's Park	·31	0	5	3·72
July 15	VIII.	Bolton, Queen's Park	·26	0	5	3·12
June 13	X.	Ushaw, St. Cuthbert's College	·55	0	6	5·50x
June 18	I.	St. Pancras, Camden Square	·30	0	6	3·00
June 28	V.	Erlestoke Vicarage	·45	0	6½	4·15
June 18	IV	West Ham, Abbey Mills	·85	0	8	6·38x
Aug. 23	VII.	Wirksworth, Manor House	·29	0	8	2·18
June 26	IX.	Sheffield, Millhouses	·35?	0	9	2·33
Sept. 5	II.	New Malden, Edenfield	·47	0	12	2·35
May 29	II.	Dormans Park, Hill Crest	·52	0	13	2·40
June 20	IX.	Sheffield	·72	0	15	2·88
Sept. 5	II.	Dormans Park, Hill Crest	·57	0	15	2·28
June 18	II.	Farnham, Short Heath Lodge	·50	0	15	2·00
June 18	I.	St. Pancras. Camden Square	·45	0	15	1·80
June 18	I.	Hammersmith, The Creek	·88	0	20	2·64
May 29	II.	New Malden, Edenfield	·78	0	20	2·34
June 18	II.	Kingston, Sewage Works	1·21	0	25	2·90
June 18	I.	Hammersmith Cemetery	·80	0	25?	1·92?
June 18	II.	Weybridge. Station Road	·68	0	29	1·41
May 29	II.	Seale	1·50?	0	30	3·00?x
June 13	IV.	Haverhill Vicarage	1·32	0	30	2·64
May 29	II.	Liphook	1·06	0	30	2·12
June 17	IX.	York	·95	0	30	1·90
June 18	II.	Richmond Green	·90	0	30	1·80
June 12	II.	Godalming, Munsted Heath	1·81	0	35?	3·10?x
May 29	IX.	Hebden Bridge, Falling Royd	·97	0	35	1·66
May 29	II.	Feltham, Chartham Park	1·24	0	39	1·91
June 29	I.	South Kensington	1·02	0	40	1·53

TABLE III.—*Heavy Rains in Short Periods in* 1917—*(continued).*

Date.	Div.	Station	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
July 15	V.	North Cadbury Rectory............	1·50	0 45	2·00
May 29	XVI.	Crieff	1·22	0 50	1·46
June 16	I.	St. Pancras, Camden Square	1·18	0 56	1·26
May 29	IV.	Leyton, Town Hall	1·92	1 0?	1·92?x
June 17	VI.	Droitwich, Friar Street Depôt	1·62	1 0	1·62
June 16	I.	St. Pancras, Camden Square	1·56	1 0	1·56
May 29	II.	Upton Grey, Hoddington House ...	1·24	1 0	1·24
June 17	VI.	Tenbury, St. Michael's	1·16	1 0	1·16
May 29	XI.	Bridgend, Highmead	1·18	1 10	1·01
May 29	VII.	Alderwasley	1·22	1 15	·98
May 29	XVI.	Aberfeldy, Dall Avon	1·44	1 20	1·08
June 16	I.	Hammersmith, The Creek	2·75	1 30	1·83xx
Aug. 28	III.	Melbourne Vicarage	2·00	1 30	1·33x
May 29	II.	Seale	1·83	1 30	1·22
July 27	XXIII.	Warrenpoint, Clonallon	1·48	1 40	·89
June 28	II.	Ashley, Old Manor House	1·41	1 45	·81
June 16	I.	St. Pancras, Camden Square	2·75	1 53	1·46xx
June 16	I.	Hammersmith Cemetery	3·10	2 0?	1·55?xx
July 29	III.	Slough, Langley	2·30	2 0	1·15x
June 16	I.	Finsbury Park, Green Lanes	1·89	2 0	1·45
June 16	II.	Barnes Common, St. Mary's Grove ..	1·86	2 0	·93
May 29	IV.	Lexden, Hill House	1·86	2 0	·93
June 16	II.	Richmond Green	1·75	2 0	·88
June 16	I.	Finsbury Park, Lordship Road	1·57	2 0	·79
June 16	I.	St. Pancras, Camden Square	2·86	2 15	1·27xx
June 16	I.	Campden Hill, Cam House	4·65	2 30?	1·86?xx
May 20	IV.	Hassobury [Bishop's Stortford]	1·96	2 30	·78
June 16	I.	Hampstead, Kemplay Road	1·90	3 0	·63
May 17-18	III.	Furneaux Pelham	2·32	4 30	·52

HEAVY FALLS ON RAINFALL DAYS IN 1917.

The heavy daily rainfalls of 1917 were in some respects of unusual interest and it is a matter of great regret that considerations of time and space compel us severely to restrict their discussion, more particularly to omit maps of the distribution on several occasions when, in ordinary circumstances, they would have been published as a matter of course. The statistical data we give in full in order to maintain the continuity of the series of such lists which has now been continued without a break since 1864. The Chronicle includes all daily rainfalls noted during 1917, which reached the limit of 2·50 in. or alternatively 7·5 per cent. of the total fall for the year at the station in question, the only exception being that should more than one such fall be observed at any station during the year only the largest is quoted. This admitted defect we hope to remedy in the future, but as it would involve some lengthening of the lists the improvement must be postponed for the present. In order, however, to obtain some idea of the omissions from the Chronicle due to the plan of including only the maximum fall of the year we have prepared since 1914 short summaries of the number of stations with two or more falls of 2·50 in. in the year. Occurrences of two or more falls of 7·5 per cent. are certainly so rare as to be safely ignored.

Number of stations with two or more falls of 2·50 in. or more in 1917.

County.	Number of Stations.	Number of Falls.	Station with largest number.	
Lancashire	1	2	Coniston, Holywath	2
Yorks, West Riding	1	2	Slaidburn, Whitendale	2
Cumberland	1	6	Seathwaite	6
Westmorland	1	2	Dungeon Ghyll	2
Merioneth	1	2	Llechwydd Quarries	2
Carnarvon	2	4	Beddgelert Snowdon, Cwm Dyli	2
Ayr	1	2	New Cumnock	2
Argyll	10	23	Several	3
Inverness	4	22	Kinlochquoich	11
Cork	1	2	Kilcoleman	2
Total	23	67	Kinlochquoich	11

In comparing the above with previous years it should be remarked that the majority of the records kept in the Snowdon district were not read quite so regularly as usual in 1917, and are, therefore, not available for the study of daily falls. It is interesting to compare the totals for the four years of stations with two or more falls of 2·50 in. :—

Year.	Number of Stations.	Number of Falls.	Station with largest number.	
1914........	55	176	Pen-y-Gwryd	12
1915........	31	71	,, ,, ...	6
1916........	46	130	Kinlochleven	7
1917........	23	67	Kinlochquoich...........	11

The year was noteworthy for two unprecedented rain storms respectively on June 16th and June 28th, and of these, the latter affected so large a number of stations that the following long list of additions and corrections is required to bring up to date the historic lists of maximum daily rainfalls published in 1910 and revised year by year since. Apart from these two days, there is nothing of unusual interest in the list.

Div.	County.		Station.	Date.	Rainfall.
I.	LONDON	*substitute*	Kensington, Cam House	June 16th, 1917..	4·65
,,	,, ...	,,	,, Holland Ho.	June 16th, 1917..	4·00
II.	Hampshire	,,	W. Tytherley, Buckholt	June 28th, 1917..	4·94
,,	,,	,,	Stockbdge,BossingtonHo	June 28th, 1917..	4·38
V.	WILTSHIRE .	*add*	Stourhead Gardens ...	June 28th, 1917..	6·50
,,	,,	,,	,, School	June 28th, 1917..	6·50
,,	,,	,,	Tisbury, Pythouse	June 28th, 1917..	6·01
,,	,,	,,	,, The Academy	June 28th, 1917..	5·87
,,	,,	,,	Fonthill House	June 28th, 1917..	5·74
,,	,,	,,	Mere, Charnage	June 28th, 1917..	5·69
,,	,,	,,	Bourton	June 28th, 1917..	5·55
,,	,,	,,	Fovant	June 28th, 1917..	5·05
,,	,,	,,	Porton...............	June 28th, 1917..	4·80
,,	,,	,,	Kilmington Rectory .	June 28th, 1917..	4·60
,,	,,	,,	Gillingham, Town Mills	June 28th, 1917..	4·44
,,	,,	,,	Warminster,Bishopstrow	June 28th, 1917..	4·42
,,	,,	,,	SuttonVeny,Greenhill .	June 28th, 1917..	4·41
,,	,,	,,	Shrewton	June 28th, 1917..	4·36
,,	,,	,,	Woodford,Court House	June 28th, 1917..	4·25
,,	,,	,,	Warminster, Rye Hill .	June 28th, 1917..	4·22
,,	,,	,,	Corsley, Sturford Mead	June 28th, 1917..	4·06
,,	,,	,,	Sutton Veny,The Camp	June 28th, 1917..	4·06
,,	,,	,,	Edington Vicarage ...	June 28th, 1917..	4·00?
,,	,,	,,	Maiden Bradley	June 28th, 1917..	4·00?
,,	SOMERSET ..	,,	Bruton, Sexey's School	June 28th, 1917..	9·56
,,	,,	,,	,, King's School .	June 28th, 1917..	8·48
,,	,,	,,	Aisholt, Timberscombe	June 28th, 1917..	8·39
,,	,,	,,	Bruton, Pitcombe Vic.	June 28th, 1917..	7·90
,,	,,	,,	Cothelstone House	June 28th, 1917..	7·05
,,	,,	,,	Castle Cary, Alford Ho.	June 28th, 1917..	6·95
,,	,,	,,	Butleigh Gardens	June 28th, 1917..	6·75
,,	,,	,,	,, Corvile	June 28th, 1917..	6·10

Div.	County.		Station.	Date.	Rainfall.
V.	SOMERSET ..	*add*	Wincanton, Roundhill Gr	June 28th, 1917..	6·02
,,	,,	,,	Ashcott School	June 28th, 1917..	6·00
,,	,,	,,	Street, Leigholt	June 28th, 1917..	5·85
,,	,,	,,	Butleigh Court........	June 28th, 1917..	5·76
,,	,,	,,	Street, Overleigh House	June 28th, 1917..	5·61
,,	,,	,,	,, Council Yard...	June 28th, 1917..	5·60
,,	,,	,,	Cutcombe, Wheddon Cr.	June 28th, 1917..	5·43
,,	,,	,,	Winsford School	June 28th, 1917..	5·35
,,	,,	,,	Street, Millfield	June 28th, 1917..	5·13
,,	,,	,,	Ditcheat	June 28th, 1917..	4·93
,,	,,	,,	Milverton, Halse	June 28th, 1917..	4·91
,,	,,	,,	Cannington, Brymore	June 28th, 1917..	4·91
,,	,,	,,	Street, Hind Hayes....	June 28th, 1917..	4·86
,,	,,	,,	Williton, Aller Farm ..	June 28th, 1917..	4·82
,,	,,	,,	N. Petherton, Shovell..	June 28th, 1917..	4·80
,,	,,	,,	Bridgwater, Ashford ..	June 28th, 1917..	4·60
,,	,,	,,	Hawkridge, Liscombe..	June 28th, 1917..	4·50
,,	,,	,,	Bridgwater, Blake Gdns	June 28th, 1917..	4·45
,,	,,	,,	SheptonMallet,Croscombe	June 28th, 1917..	4·39
,,	,,	,,	Cranmore Hall	June 28th, 1917..	4·35
,,	,,	,,	Taunton, The Park ...	June 28th, 1917..	4·33
,,	,,	,,	N.Petherton,OldRectory	June 28th, 1917..	4·25
,,	,,	,,	Bridgwater, Northfield	June 28th, 1917..	4·25
,,	,,	,,	Wanstrow, Manor Cott'ge	June 28th, 1917..	4·12
,,	,,	,,	Chilton Polden	June 28th, 1917..	4·10
,,	,,	,,	Oakhill, Pondsmead .	June 28th, 1917..	4·00
,,	,,	,,	Wiveliscombe,Culverhead	June 28th, 1917..	4·00
XIV.	Renfrew	,,	Lochwinnoch,Garthland	Nov. 29th, 1917..	4·00
XV.	ARGYLL ...	,,	Loch Awe, Dalavich ..	Nov. 29th, 1917..	4·20
,,	,,	,,	Glen Etive	Nov. 28th, 1917..	4·06
,,	,,	,,	Kinlochleven	Nov. 28th, 1917..	4·05
XVIII.	INVERNESS	,,	Kinlochquoich	Nov. 28th, 1917..	5·82
,,	,,	,,	Glenquoich	Nov. 28th, 1917..	4·67
,,	,,	,,	Kinlochmore	Nov. 28th, 1917..	4·05
XIX.	Caithness ...	*insert*	Thurso, Buckies	June 21st, 1917..	3·05

Part I.—The Chronicle.

January 25th.

With prevalent low temperature, and strong and steady south-easterly winds, snow storms of a somewhat unusual nature occurred in Ireland yielding more than 2 inches of precipitation in the south-west. In western Mayo, where snow is almost unknown, very remarkable drifting occurred.

XX. (MUNSTER).	*in.*	or %
Dunmanway (The Rectory)	2·77	5·7
Enniskean (Kilcoleman) ...	3·50	8·4

XX. (MUNSTER).	*in.*	or %
Cork (Wellington Road) ...	2·35	7·5

March 10th.

XIV. (SCOT., S.W.).	*in.*	or %
Glasgow (Elder Park)	2·72	7·2

XXIII. (ULSTER).	*in.*	or %
MourneMts. (Fofanny Res.).	3·15	5·6

April 1st—2nd.[*]

Although no measurements qualified for inclusion in the chronicle these days are worthy of mention on account of very unusual snow storms for so late a date. These were chiefly experienced in the north of Great Britain and in the south of Ireland, but an interesting note from Shrewton, on Salisbury Plain, mentions the depth locally as 11 inches, yielding 1·92 in.

May 20th.

Thunderstorms occurred in the south-east of England, locally of great severity. The only centres of heavy rainfall appear to have been East Herts and in the Black Mountains, Breconshire.

III. (Eng., S. Mid.).	*in.*	or %	IV. (Eng., E.).	*in.*	or %
Bishop's Stortford (Hadham Rd)	2·40	9·3	Barrington Hall	1·90	7·5
Furneaux Pelham	2·32	8·5			

May 27th—29th.[†]

Small and shallow depressions moved irregularly over England during this period, and local rainfall, accompanied, especially on the 29th, by severe electrical disturbances, occurred over a considerable area.

May 27th.

V (Eng. S.W.). Worcester (Hindlip Hall) .... 2·05 in. or 8·0 per cent.

May 29th.

II. (Eng., S.E.).	*in.*	or %	IV (Eng., E.).	*in.*	or %
Farnham (Crooksbury Ridges)	2·39	7·6	Tiptree	1·78	7·9
IV. (Eng., E.).			Lexden (Hill House)	1·86	8·4
Leyton (Sewage Works)	2·00	7·5			

June 16th.[°]

On the afternoon of this day, probably generally between 3.45 and 4 p.m. (G.M.T.) a thunderstorm of a highly localized character commenced over the north of London. Owing to the relatively close network of observing stations in the metropolitan area we are fortunately able to outline the zones of rainfall with considerable accuracy, but the centre of most intense rainfall was so small that the phenomenon naturally gives rise to the speculation as to whether rainfall of similar intensity and amount may not have occurred in districts unprovided with rain gauges more often than is generally supposed, since there are many thousands of square miles in the country where a storm of the nature might occur and pass virtually unnoticed, much less measured. The chart of the Casella Standard self-recording rain gauge at Camden

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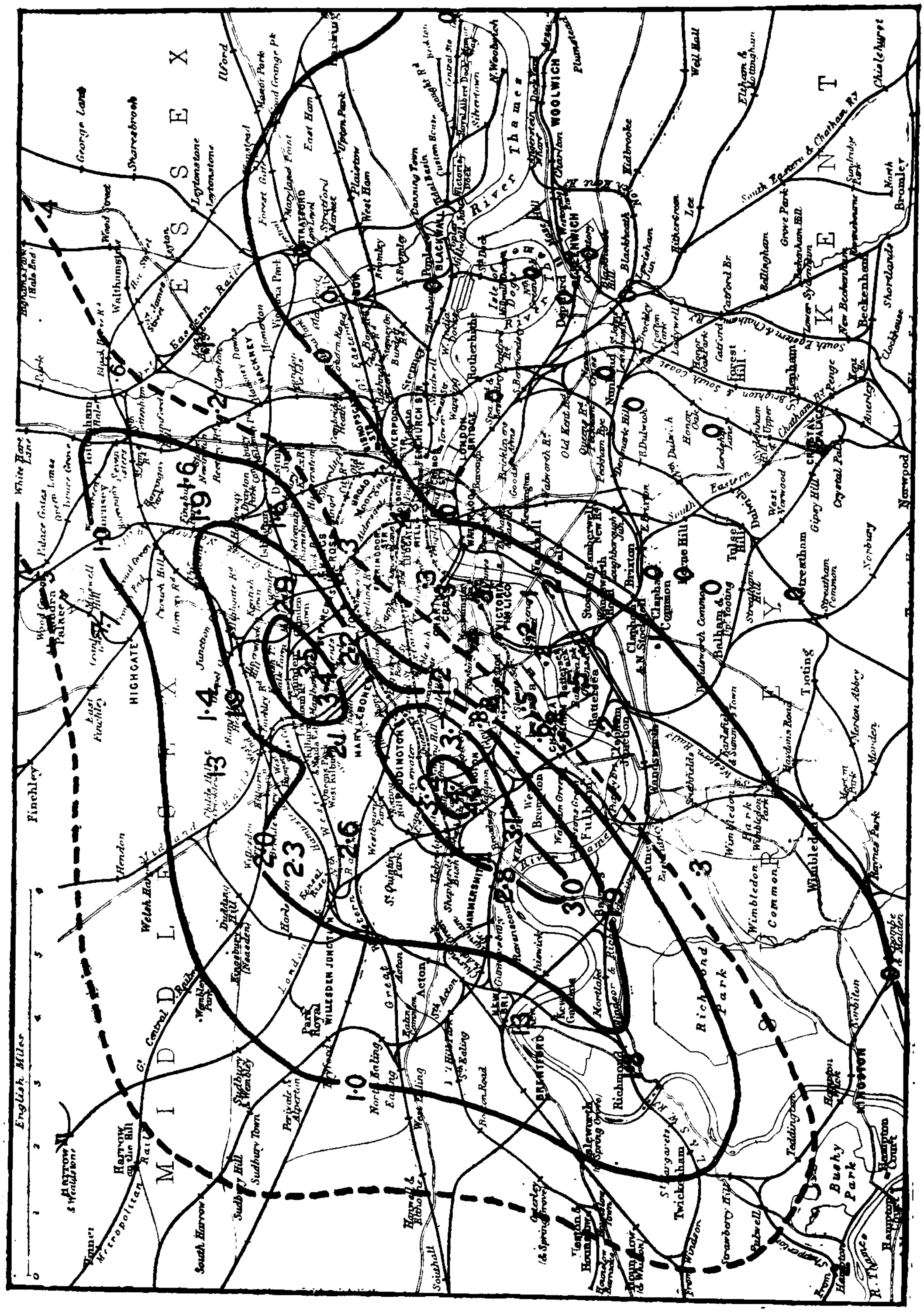
[*] See *Meteorological Magazine*, Vol. 52, April, 1917, p. 29; May, 1917, p. 43.

[†] See *Meteorological Magazine*, Vol. 52, June, 1917, p. 54.

[°] See *Meteorological Magazine*, Vol. 52, July, 1917, p. 61.

RAINFALL JUNE 16TH, 1917.


English Miles
MIDDLESEX
ESSEX
SURREY
KENT
River Thames

The Rainfall is indicated in inches and tenths over the site of the station.

Square, the only automatic gauge within the area concerned of which we have seen the curve, shows that rain commenced with considerable suddenness at 4 p.m. (G.M.T.) and reached its full intensity at about 4.15 p.m. There was a momentary pause at 5.15 p.m., and a slight temporary slackening at 5.45 p.m., but otherwise the rain continued at a fairly uniform rate till 6.10 p.m., when it ceased abruptly. The total fall in the whole period was 2·86 in.

The map reproduced on p. [42] includes only the central portion of the storm area, but most of the district with more than ·50 in. lies within it. The actual rainfall in inches and tenths is marked over the site of the majority of the stations. It is of interest to note the extremely sharply defined zero line, passing from Stratford through Liverpool Street to Wimbledon, to the south-east of which no rain fell. Parallel to this line and from 1½ to 2 miles north-west of it, the line of ·50 in. runs from Woodford through Dalston and Chelsea to Teddington, and then turns northward to Sudbury and eastward to Wood Green, nearly encircling the storm area. Within the district thus enclosed a well-defined area with more than 1 inch of rain stretched from Tottenham on the north-east to Twickenham on the south-west, and extended to Ealing, Wembley and Highgate on its north-western margin. On the south-east the 1 inch line ran about half a mile north-west of the ·50 in. line passing through Canonbury, King's Cross and Walham Green. More than 2 inches fell between Finsbury Park and Richmond and extended to Willesden Green on the north-west. The rainfall gradient on the south-east was still further intensified, the 2 inch line approaching within a quarter of a mile of the 1 inch line in the neighbourhood of Kensington and St. Pancras. More than 3 inches appears to have fallen in two separate areas, one lying to the north of Regent's Park, where two excellent records fix it fairly definitely, the other, of somewhat larger size, stretching from Paddington to Barnes and thoroughly well outlined by half a dozen good records. Within this area there appears no doubt that more than 4 inches fell over about half a square mile in the Campden Hill neighbourhood. The highest reading, 4·65 in., was obtained by a gauge in the garden of Lord Phillimore's residence, Cam House, and support is afforded by the reading of 4·00 in. at Holland House, where the gauge was unfortunately allowed to overflow. At Kensington Gardens, about a mile east, 3·65 in. was measured, and at Campden Hill Reservoir, immediately to the north, 3·20 in.

In parts of the district most severely visited considerable damage was done by flooding and heavy hail was reported in places. Previous records of heavy rainfalls in the London area provide no parallel to the measurements above quoted. The largest amount hitherto recorded was 3·90 in., at Haverstock Hill, on April 10th, 1878. Dr. A Buchan in the *Encyclopædia Britannica* (9th ed.), refers to a fall of 4·60 in. in London on April 13th, 1878, but we have little doubt that this is a slip for April 10th, and it will be observed by reference to *British Rainfall, 1878*, p. [83], that 4·62 in. fell during parts of the two rainfall days, April 10th and 11th, of which amount 3·90 in. fell on the 10th, as quoted above. On June 23rd of the same year occurred the well-remembered storm at Camden Square, during which the late Mr. G. J. Symons measured 2·42 in. in 40 minutes and 3·28 in. in 1 hr. 30 min. Sir J. Clark Ross records in his Antarctic Voyage (London, 1847) that on August 1st, 1846, above 4 inches of rain fell between 3.30 and 6.30 p.m. in London. This is possibly the same fall as another referred to by Dr. Buchan, who says that 3·12 in. fell in 2 hrs. 17 mins. at Camberwell on this day, but no note of the record appears in the books of the British Rainfall Organization.

In order to place the measurements upon record in a form comparable with those given for other heavy rainfalls, we give below the areas of the zones for the main 1 inch splash. The area with rain was ill-defined on the north-west and isolated thunderstorms occurred in one or two other parts of England, in no case, however, assuming the proportions of the London storm.

Rainfall of June 16th in London.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 4 inches	·4	4·20	1·7
3—4 inches	4·0	3·36	13·5
2—3 „	15·4	2·46	37·9
1—2 „	31·0	1·45	44·9
Total	50·8		98·0

The general rainfall of the area with more than 1 inch was 1·93 in., and some idea of the scale upon which Nature's operations are sometimes planned may be imagined from the simple calculation that upon the portion of the county of London involved (about one-third of the whole) 6,334,720 tons, or 1,419 million gallons of water, were deposited within approximately two and a quarter hours.

I. (London).	in.	or %	I. (London).	in.	or %
Paddington (Harrow Road)	2·55	9·4	St.Marylebone(OrmondeTer.)	3·50	11·6
Kensington (Holland House)	4·00*	12·9	Hampstead (Barrow Hill) .	3·37	11·0
,, (Cam House) ..	4·65	15·2	St. Pancras (Camden Square)	2·86	9·5
,, (Campden Hill)	3·20	9·7	II. (Eng., S.E.).		
Hammersmith (The Creek) .	2·75	10·5	Barnes (Castlenau)	3·00	9·6
,, Cemetery ..	3·10	10·6	III. (Eng., S. Mid.).		
Kensington Gardens	3·65	12·1	Willesden Reservoir	2·34	8·6

*Gauge overflowed

June 17th.

Local thunderstorms again developed in scattered areas in all parts of England. Hail of a very remarkable nature, some stones said to have been 2 inches in diameter, did great damage at Tenbury, and at Gateacre, near Liverpool. Damage by lightning and "huge hail" are also reported from Darlington.

III. (Eng., S. Mid.).	in.	or %	VI. (Eng., W. Mid.).	in.	or %
Rothwell (Shotwell Mill)....	1·90	8·5	Chilvers Coton Vicarage ...	3·00	11·4

June 21st.

A small low pressure system passed slowly from west to east across the north of Scotland and was associated with a rainfall of some note in Sutherlandshire, Caithness and the Orkneys.

XIX. (Scot., N.).	in.	or %	XIX. (Scot., N.).	in.	or %
Berriedale (Langwell Gdns.)	2·76	6·9	Thurso (Buckies)	3·05	6·3

June 28th.†

The rainfall of this day, which affected the whole of the south of England, and which culminated in Somersetshire and Dorset in falls of an absolutely unprecedented nature, is dealt with in detail in a special article in Part I. of this volume. In order to put the statistical data in their proper place in the Chronicle of Maximum Falls the list is given here. A detailed map of the wettest area is given as a frontispiece to this volume.

I. (London).	in.	or %	II. (Eng. S.E.)	in.	or %
Shad Thames Pumping Stn.	1·84	7·9	West Dean Park	2·90	8·6
Holborn (Stone Yard)	1·95	7·8	Compton House	2·65	7·7
Finsbury (New River Head)	1·94	7·5	Patching	3·20	10·5
Guildhall	1·76	7·6	Elsted (Telegraph House).....	3·54	10·2
II. (Eng., S.E.).			Rogate (Durford Abbey Fm.)	2·75	8·6
Bognor	2·17	8·9	Tillington (River House) ..	2·10	7·7
,, (Albert Road)	2·09	8·2	Lodsworth................	2·14	8·3
Chichester (Westgate)	2·14	8·0	Worthing (Victoria Park) ..	2·63	10·3
West Bourne	2·58	9·1	East Preston (Bay Trees) ..	2·28	8·3
Funtington	2·41	8·7	Worthing (Broadwater) ...	2·59	9·8
Goodwood Gardens	2·47	7·7	Brighton W.W.(Shoreham) .	2·15	7·6

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† See *Meteorological Magazine*, Vol. 52, July, 1917, p. 65 ; October, 1917, p.104.

II. (Eng. S.E.)	*in.*	or %
Bramber (Burletts)	3·03	9·1
Steyning (Crescent Road)	2·81	8·7
Jevington (Church Farm)	2·05	7·5
Southampton (Shirley)	2·85	9·6
Timsbury Pumping Station	2·74	8·7
West Dean Rectory	3·71	10·8
West Tytherley (Buckholt)	4·94	14·0
Horsebridge (Bossington Ho.)	4·38	12·8
Ashley (Old Manor House)	3·95	11·8
„ (Upper Somborne)	3·41	10·6
Broughton	3·65	10·6
Stockbridge (Houghton Ldg.)	3·58	10·7
Portsmouth (Eastney)	1·91	8·2
Porchester (Noel Cottage)	1·84	7·9
Havant (Farlington)	2·25	9·0
„	2·28	8·9
Cosham (Purbrook Grange)	3·00	8·3
Cowplain (Forest View)	2·61	8·2
Wickham (The Lower Ho.)	3·00	9·2
„ (Park Place)	3·00	8·9
Southampton (Chapel)	2·75	9·4
„ (Porstdown)	3·30	10·4
Botley (Fairthorne Manor)	2·98	8·7
„ (Hedge End)	2·90	8·9
„ (Botley Hill)	3·45	10·5
Curdridge (Beechcroft)	3·37	10·3
„ (Kitnocks House)	2·85	8·8
Soberton (Gosport W.W.)	2·44	7·6
BishopsWaltham(Palace Ho.)	2·45	7·8
„ „ (Swanmore Ho.)	2·80	7·3
Droxford (Uplands)	2·94	8·6
„ (Fairfield House)	3·04	8·5
„ (Fir Hill)	3·00	9·0
Chandlers Ford (Fryern)	2·59	9·1
Ditcham Park	2·86	8·2
Otterbourne House	3·12	9·2
„ (W.W.Shawford)	3·41	10·6
Westbury House Gardens	2·91	8·3
Owslebury House	3·33	11·1
Twyford Pumping Station	3·15	10·3
„ (Mallards Close)	3·16	9·7
Hursley Park	2·43	8·9
Winchester (St. Giles' Hill)	2·90	9·5
„ (NorthgatePlace)	3·41	10·4
Ovington Rectory	2·60	7·8
Itchenstoke Rectory	2·30	7·6
Itchen Abbas (Chilland)	2·47	8·2
Petersfield (Buriton House)	2·81	8·0
„ (Weston)	2·91	8·1
„ (The Mount)	2·70	8·1
Greatham (Le Court)	2·57	7·4
E. Tisted (Rotherfield Park)	2·65	6·7
„ Rectory	2·26	8·0
Finchampstead (West Court)	2·10	8·0
Reading (Leighton Park)	1·93	7·5
„ (Caversham Lock)	1·84	7·8

II. (Eng. S.E.)	*in.*	or %
Little Wittenham	1·73	8·1
Long Wittenham (ManorHo.)	1·90	7·5
Abingdon (The Square Ho.)	2·21	9·1
„ (Fitzharris)	1·75	8·3
III. (Eng., S. Mid.).		
Clifton Hampden	1·89	8·0
Lewknor (Manor House)	3·00	9·7
Wheatfield	2·40	8·7
Toot Baldon (Potlands)	2·11	8·5
Great Haseley	2·32	9·0
V. (Eng., S.W.).		
Corsley (Sturford Mead)	4·06	10·5
Edington Vicarage	4·00?	12·6
Erlestoke Vicarage	3·00	9·2
TrowbridgeW.W.(BissBotm.)	3·00	8·5
„ (Rood Ashton)	3·40	8·7
Bradford (Woodleigh)	3·25	9·0
„ (Winsley Manor)	3·30	10·2
„ (Woolley Grange)	2·56?	7·6
„ (Manvers House)	3·36	10·0
Seend (Manor Cottages)	2·65	9·0
Mere (Charnage)	5·69	15·9
Stourhead Gardens	6·50	16·1
„ School	6·50	..
Kilmington Rectory	4·60	10·8
Charlton House	2·57	8·1
Longford Castle	3·09	9·6
Fovant	5·05	..
Tisbury (Pythouse)	6·01	..
„ (The Academy)	5·87	14·5
East Knoyle (Slades)	3·58	10·0
Fonthill House	5·74	14·4
Salisbury	3·21	11·0
„ (Fowlers Hill)	2·98	10·3
„ (Brown Street)	3·32	10·3
„ (Atherton House)	3·13	10·4
„ (Wilton House)	3·28	9·3
Stratford-sub-Castle	3·84	13·0
Woodford (Court House)	4·25	13·2
Porton	4·80	..
Wylye Rectory	3·55	10·9
Stockton House	3·90	11·0
Maiden Bradley	4·00?	10·2
Sutton Veny (Greenhill)	4·41	12·0
„ „ (The Camp)	4·06	..
Warminster (Rye Hill)	4·22	11·8
„ (Bishopstrow)	4·42	13·1
Chitterne House	3·36	12·2
Shrewton	4·36	12·4
Shaftesbury (The Abbey Ho.)	2·23	7·8
Gillingham (Town Mills)	4·44	12·8
Bourton	5·55	14·7
Culmstock (Nicholashayne)	2·27	7·5
Bampton (Oakford Rectory)	3·00	7·5
Martinhoe Rectory	2·75	7·1
Rackenford Manor	2·75	6·0

V. (Eng., S.W.).	*in.* or	%
Warkleigh Rectory	2·92	7·3
South Molton	3·30	6·8
Molland	3·58	6·8
E. Anstey (Rhyll Manor)	3·78	8·3
Torrington (Enfield)	2·57	6·9
Bideford (Horwood House)	2·50	7·5
Altarnon Sanctuary	2·64	4·7
Wanstrow (Manor Cottage)	4·12	10·7
Cranmore Hall	4·35	..
Oakhill (Pondsmead)	4·00	8·3
„ (Hillylands)	3·99	8·1
Frome W.W. (Egford)	3·50	9·2
„ (Selwood School)	3·33	9·5
Mells (Selwood)	3·35	9·2
Binnegar (Gurneyslade)	3·26	7·4
Downside Abbey	3·65	8·5
Frome (Orchardleigh)	3·04	..
Beckington	3·41	10·0
„ (The Cedars)	3·47	10·1
ChewtonMendip(ThePriory)	3·89	8·2
„ „ (Waldegrave Ho.)	3·48	7·8
MidsomerNorton(Island Ho.)	3·49	8·5
„ „ (Dymboro)	3·46	8·7
Radstock	3·47	8·9
Litton (Sherborne Reservoir)	2·91	6·4
Temple Cloud	3·19	7·9
Clutton (Council School)	3·02	6·9
Pensford (Sutton Court)	2·62	7·0
Monkton Combe (Crossways)	2·90	7·9
Bath (Combe Down)	2·92	8·0
„ (Statutory Hospital)	2·62	7·6
Castle Cary (Alford House)	6·95	19·0
Somerton (Butleigh Court)	5·76	16·7
„ („ Gardens)	6·75	20·1
„ (Corvile)	6·10	..
Bruton (Pitcombe Vicarage)	7·90	20·6
„ (King's School)	8·48	20·2
„ (Sexey's School)	9·56	..
Ditcheat	4·93	..
Street (Leigholt Reservoir)	5·85	19·7
„ (Overleigh House)	5·61	18·0
„ (Hind Hayes)	4·86	15·6
„ (Millfield)	5·13	16·4
„ (Council Yard)	5·60	18·2
Ashcott School	6·00	..

V. (Eng. S.W.)	*in.* or	%
Chilton Polden	4·10	13·8
Shepton Mallet (Pilton)	2·70	7·0
„ „ (Charlton)	3·70	9·4
„ „ (Field House)	3·67	9·4
„ „ (GrammarSc.)	3·64	9·3
„ „ (Croscombe)	4·39	..
Wells (The Vicarage)	3·66	9·5
„ (Som. and Bath Asy.)	2·69	8·2
„ (Wookey Hole Mills)	3·50	9·6
Burnham (Chalbury)	2·92	9·2
„	2·75	9·4
Winscombe (The Down)	2·60	7·0
Burlington (Langford)	2·75	7·5
West Coker	1·93	7·7
Wellington (Old Way House)	2·80	9·1
Angersleigh (Leigh Court)	2·66	8·6
Milverton (Spring Grove)	3·19	8·7
Taunton (The Park)	4·33	14·2
Wiveliscombe (Culverhead)	4·00	9·9
Langport (The Grange)	3·20	11·6
Milverton (Halse)	4·91	14·5
Maperton House Gardens	3·12	9·0
North Cadbury Rectory	3·84	11·7
Cothelstone House	7·05	18·9
North Petherton (Shovell)	4·80	15·4
„ . „ (Old Rectory)	4·25	13·0
Aisholt (Timberscombe)	8·39	21·8
Bridgwater (Blake Gardens)	4·45	15·0
„ (Ashford)	4·60	14·1
„ (Northfield)	4·25	14·2
Cannington (Brymore)	4·91	15·6
Williton (Aller Farm)	4·82	14·0
Holford (Dytche School)	3·50	11·0
Quantockshead(St. Audries)	3·75	12·7
Dunster (The Schools)	2·63	8·0
Minehead (Mariansleigh)	2·30	7·8
Dulverton(ExebridgeFishery)	3·98	9·5
Brushford Rectory	3·55	8·5
„ Nurseries	3·65	8·8
Hawkridge (Liscombe)	4·50	7·8
Winsford School	5·35	9·9
Cutcombe (Wheddon Cross)	5·43	10·8
Temple Combe Rectory	2·81	8·4
Wincanton (Roundhill Gr'ge)	6·02	16·5

July 14th.

In a local hail storm at Stalham, in Norfolk, corn crops were destroyed, branches torn off trees and thousands of panes of glass broken. At Norwich ·47 in. of rain fell in 2½ minutes.

July 24th.

XX. (Munster). Glenstal Castle .... 2·63 in. or 5·8 per cent.

July 29th—August 3rd.*

During this period the pressure conditions over the west of Europe were of a very unusual nature and rainfall of remarkable persistence occurred in the east and south-east of England. As is often the case with heavy rainfall the associated depressions were shallow, and the slight variations of pressure make it difficult to follow the changes with precision. The main facts were, however, as follows. On the evening of the 28th a cyclonic secondary developed in the north of Spain simultaneously with another of a much less pronounced nature in the south-east of England. By the morning of the 29th the Spanish depression lay over the north of France, and several fairly well marked but shallow centres of circulation were found in the south and centre of England. These minor systems apparently shifted their positions gradually and by the evening one was probably situated over Kent. On the morning of the 30th the continental secondary which was still shallow had moved to a point between Holland and Norfolk, and a general north wind was blowing over England, whilst no trace of the minor secondaries remained. Shifting low pressure centres were in evidence in the west of the continental mainland during the 31st, but by the morning of August 1st a definite depression was situated over Holland and had deepened somewhat. It is not quite clear whether this was part of the original system or a newly developed depression. It appears to have remained over the southern part of the North Sea with some changes of intensity until the 3rd, when it moved westward across Kent and subsequently southward to France and dispersed on the 5th. During August 1st variable winds and temperature conditions in England suggest local pressure variations. The low pressure areas were so confused and irregular that we have not felt justified in endeavouring to represent their tracks upon the rainfall map.

Heavy rain fell daily in the south-east of England, from July 29th to August 3rd, and the excessive fall culminated in a remarkable manner in Kent, where over a considerable area the total fall for the six days exceeded 8 inches, while one station at Canterbury recorded as much as 10 inches. We are unable to reproduce the maps which have been constructed for the individual days, extremely interesting though several of them are, but give that for the whole period and add notes with regard to the distribution on each day.

July 29th. Light showers were recorded over practically the whole of England, but the amount reached ·25 inch only over an area lying to the south-east of a line joining the Isle of Wight and the Wash. Two very clearly marked strips, one stretching from south-west to north-east, between Petersfield and King's Lynn, the other from south-east to north-west, from the east coast of Kent to the Chilterns, had over an inch at numerous points. Both these strips which it should be noted lay precisely at right angles one to the other had slightly marked subsidiary parallel strips on either side, and the whole was strongly suggestive of thunderstorm rainfall distribution. It is a point of great interest to note that the band of rain splashes which lay in a south-west to north-east direction, can be clearly associated with the ridge of pressure between the two principal secondary barometric depressions on the morning of this day. More than 2 inches fell between Canterbury and Westgate, near Slough, and to the north and south of Cambridge, the largest total for the day being 3·31 in., at Melbourn, near Royston, where 2 inches fell in an hour and a half, from 3 to 4.30 p.m. At Langley, near Slough, 2·30 in. fell in 2 hours, from 4.15 to 6.15 p.m., with thunder and lightning.

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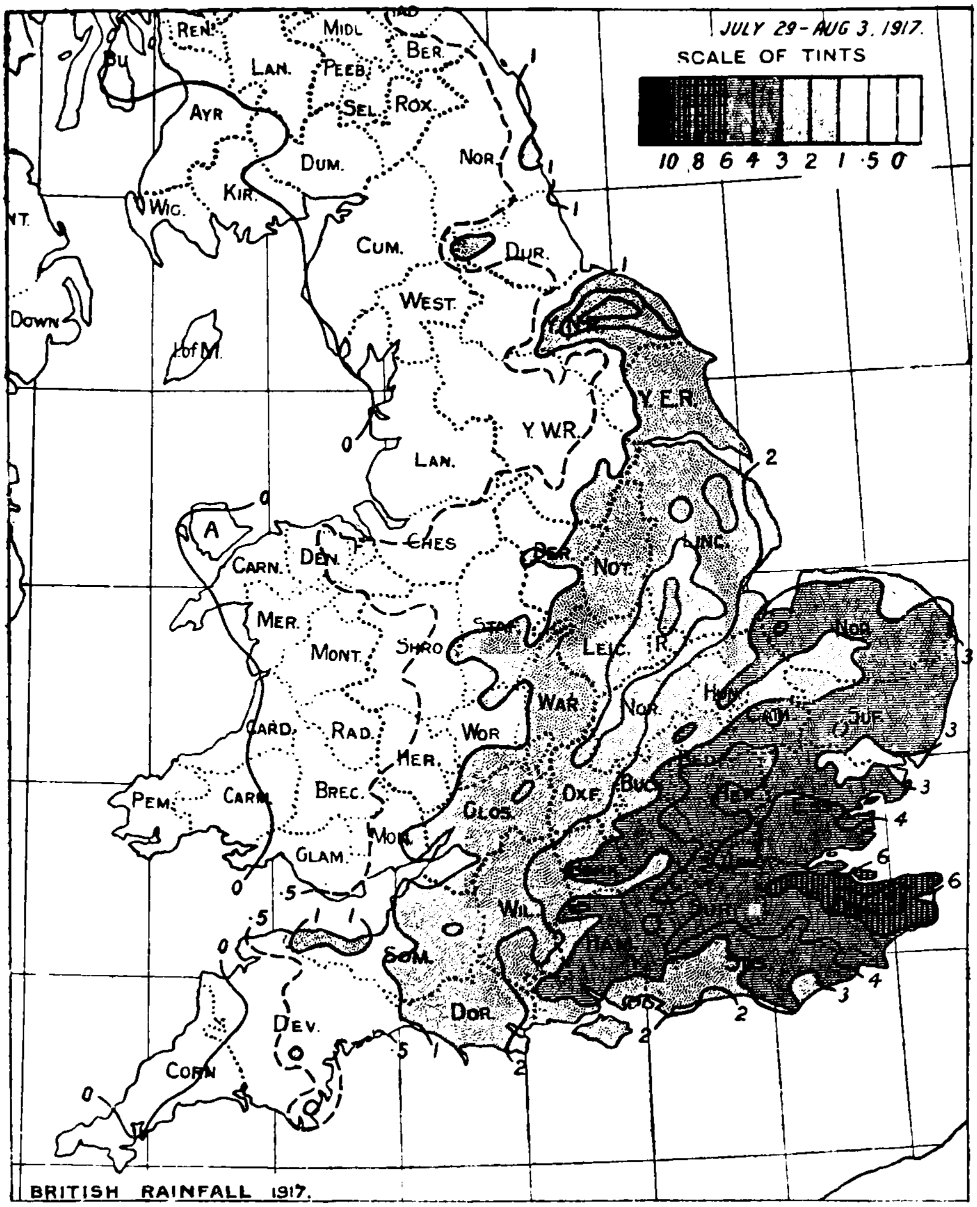
* See *Meteorological Magazine*, Vol. 52, August, 1917, p. 79; September, 1917, p. 90; October, 1917, p. 99; November, 1917, p. 115.

July 30th. Rain fell south-east of a line from Plymouth to Middlesbrough. There were some indications of the linear arrangement of rain splashes from south-west to north-east, but the main feature of the distribution was a compact area with more than 1 inch, extending from Marlborough to a point east of Canterbury. A narrow, broken strip of 2 inch falls stretched from Wokingham to Faversham, a distance of about 80 miles, its width, from north to south, being about 10 miles. To the north-east of Maidstone the fall was practically 3 inches.

July 31st. The main features of the distribution were similar to those of the 30th, but the 1 inch area was much smaller, occupying roughly the eastern half of the district over which 2 inches fell on the previous day, viz., the northern half of Kent. No falls actually reached the limit for quotation, but nearly 2 inches fell at Canterbury.

August 1st. Heavy rainfall was more widespread on this day than on any of the others of the week. Well marked strips with more than 1 inch stretched from Exmoor to Grimsby, from Bruton to Cromer, and from Wareham to Yarmouth, separated by nearly continuous strips with less than that amount. More than 2 inches fell locally in the central strip, but the principal 2 inch area again lay in the south-east and culminated at Chilham, Canterbury, and Birchington, with 2·50 in. or more. There was also an isolated 1 inch splash, with 2 inches in the centre, on the North Yorkshire Wolds.

RAINFALL, JULY 29TH—AUGUST 3RD. 1917.


JULY 29-AUG 3. 1917.
SCALE OF TINTS
10 8 6 4 3 2 1 ·5 0
REN.
MIDL.
BER.
LAN.
PEEB.
AYR
SEL.
ROX.
DUM.
NOR.
WIG.
KIR.
CUM.
DUR.
DOWN
I of M.
WEST.
Y.E.R.
Y.W.R.
LAN.
LINC.
A
CHES.
CARN.
DEN.
DER.
NOT.
MER.
STAF.
LEIC.
R.
NOR.
MONT.
SHRO.
HUN.
CAM.
SUF.
WAR.
NOR.
CARD.
RAD.
WOR.
HER.
BUC.
PEM.
CAR.
BREC.
GLOS.
OXF.
MON.
GLAM.
WIL.
SOM.
HAN.
DOR.
DEV.
CORN.
BRITISH RAINFALL 1917.

August 2nd. About an inch fell at one or two stations in Norfolk, but, generally speaking, the fall on this day was comparatively unimportant. Less than ·50 in. fell in the north of Kent.

August 3rd. More than ·50 in. fell in the east of England, south of Lincoln, with more than 1 inch in the south-west of Lincolnshire and in Rutland, in two small patches to the south of Norwich, and over a considerably larger area in the north and east of Kent, nearly 2 inches again being recorded at Canterbury.

The persistence of heavy rainfall in the north and east of Kent, especially round Canterbury, throughout the entire period was by far the most remarkable feature of the whole series of maps, and it is brought out with great force by the map of the total fall for the six days, July 29th-August 3rd, reproduced on page [50]. A map was constructed for the whole of Great Britain, but no fall of importance occurred in Scotland, and we show only England and Wales. A well-marked zero line lies near the west coast, and a fairly uniform strip, about 60 miles wide, to the east of this line, had less than ·50 in. This portion at least may thus be regarded as receiving less than its normal rainfall for a week at the time of year. One or two isolated spots in Devonshire had slightly more than one inch and more than that amount fell everywhere to the south-east of a line passing from Bridport in Dorset, to Saltburn in Yorkshire, and also in parts of Durham and Northumberland. Evidence of the linear arrangement of the rain splashes, which was so strongly marked in some of the individual days' maps, is given by the strip of falls exceeding 2 inches, stretching north-eastward, from near Wells to the coast of Lincolnshire. The precipitation in this strip culminated in falls of 3 inches near Grantham. An interesting isolated patch with more than 2 inches, running from west to east, occurred on the North Yorkshire Wolds, where more than 3 inches was observed in the centre. The main 2 inch area lay south-east of a line from St. Alban's Head to the Wash. Within this the linear arrangement of wet areas was also strongly marked, and the tendency of the strips to be arranged in a direction generally from south-west to north-east, was apparent, the one exception being along the north coasts of Kent and Norfolk, where the wettest areas took a west to east direction as in north Yorkshire. The total fall reached 4 inches in numerous small and scattered patches, but the only area with more than 4 inches of any appreciable size was centred in the south-east and included the south of Essex, most of Hertfordshire and Middlesex, the north of Surrey, and practically the whole of Kent. The area with more than 6 inches occupied roughly the northern half of Kent and in the centre, between Rochester and a point to the east of Canterbury, a considerable number of records point clearly to an unbroken patch with more than 8 inches, the area of which was not less than 166 square miles. One station, St. Thomas Hill, Canterbury, reported 10·31 in., but so remarkable a fall must have been very local, since other records, even within the city, were considerably less. At the Medical Hall, Canterbury, a Lander's self-registering rain gauge gave a total of 7·55 in., probably less than would have been recorded by a Snowdon gauge, but the record is particularly interesting as indicating the incidence and duration of the rainfall. The curves show that the rate of fall was by no means great, seldom reaching ·20 in. per hour, but the persistence of moderately heavy rain was remarkable as the following summary of the duration shows.

Rainfall at Medical Hall, Canterbury.

1917	Duration hours.	Amount in.	1917	Duration hours.	Amount in.
July 29...	10·4	1·08	Aug. 1....	17·4	1·79
„ 30...	14·6	1·17	„ 2....	11·7	·28
„ 31...	24·0	1·60	„ 3....	17·1	1·63

The longest spell of unbroken rain was from 6.30 p.m. on July 30th, until 0.20 p.m. on August 2nd, a period of 53·9 hours, in which time 4·35 in. fell. The only record of continuous rain of greater duration with which we are acquainted is that of June 13th-15th, 1903, at Camden Square, when rain fell without cessation for 58·5 hours, the amount recorded in that time being 3·44 in. The longest spell without rain during the six days was from 3.50 a.m. to 4.35 p.m. on the 30th, 12·7 hours. At no other time did rain cease for so much as 8 hours.

The measurements of the volumes from the map for the total of the six days must not, of course, be taken as comparable with those for individual showers, but we put them on record in a similar form.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain sq. miles x inches.
More than 10 inches	11	10·10	112
8—10 inches	155	8·75	1,360
6—8 „	688	7·00	4,817
4—6 „	3,715	4·88	18,134
3—4 „	8,007	3·40	27,196
2—3 „	7,308	2·49	18,178
1—2 „	11,988	1·51	18,147
Total more than 1 inch.	31,872		87,944

The general rainfall of the area with more than 1 inch of rain during the six days was 2·76 in., corresponding to 1,273,369 million gallons.

It is interesting to compare this heavy and long continued rain with that which occurred in the same district on October 26th-28th, 1909. This was described with maps in *British Rainfall, 1909*, pp. [99]-[103].

The following list gives the fall for the six days, July 29th-August 3rd, inclusive, at all stations where the total reached 7·50 in.

	in.
Canterbury, St. Thomas Hill	10·31
Chilham, Lower Ensden	8·84
Molash, Wytherling Court ...	8·70
Ospringe, Lorenden	8·45
Selling, Luton	8·39
Detling, The Croft	8·39
Bicknor Rectory	8·29
Canterbury, Oaten Hill House	8·06

	in.
Birchington, Hollydene	7·94
Rochester, Knight's Place ..	7·83
Crundale, Winchcombe Farm	7·72
Reculver	7·68
Frindsbury, The Shrubbery..	7·63
Canterbury, Medical Hall	7·55
Kingston Rectory	7·51

July 29th

III. (Eng., S. Mid.).	*in.*	or %
Slough (Langley)	2·65	9·3
Melbourn Vicarage	3·31	12·0
Meldreth (Chiswick Farm)	2·36	9·2
Wimpole Hall	2·03	7·7

III. (Eng., S. Mid.),	*in.*	or %
Grantchester Mill	1·80	7·7
Cambridge (Herschel House)	1·79	8·0
„ (Pinehurst)	1·90	8·0
Cottenham (Bernard House)	2·37	10·2

July 30th.

I. (London).	*in.*	or %
Eltham (High Street)	2·22	8·2
Golders Hill	1·95	7·9
II. (Eng., S.E.)		
S. Norwood (Holmesdale Rd.)	2·14	7·8
Norwood (Auckland Road)	2·16	8·2
Anerley (Town Hall)	2·26	7·8
Sutton (Cheam Road)	1·95	8·1
W.Molesey (Walton Works)	1·97	7·8
Molash (Wytherling Court) .	2·50	7·3
Selling (Luton)	2·60	8·0
Bicknor Rectory	2·87	9·5
Leeds (Schoolhouse)	2·30	8·3
Maidstone (Allington Lock)	2·27	7·7
Detling (The Croft)	2·96	9·1
Halling (Pumping Station)..	2·44	9·1
Rainham (Mardale House) .	2·33	8·5
Chatham (Luton W.W.) ...	2·28	8·5
Rochester (Knight's Place)	2·31	8·1

II. Eng., S.E.).	*in.*	or %
Frindsbury (The Shrubbery)	2·04	7·9
Chelsfield (Woodlands) ...	2·56	8·2
Orpington (Kent W.W.) ...	2·70	8·8
Meopham (The Chestnuts) .	2·85	10·7
Cobham (Sole Street House)	2·52	8·8
„ (Scaler's Hill)......	2·40	8·2
Bickley (Sunnydene)	2·36	8·0
„ (Farrants)	2·30	7·8
Bromley (Hazelcroft)	2·30	8·4
„ (King's Avenue)...	2·64	9·6
„ (The Palace)	2·34	8·3
Beckenham (Croydon Road)	2·65	8·4
Chislehurst (Hawkwood) ..	2·43	8·1
Sidcup (Beech View)	2·60	9·0
Wokingham	2·09	8·1
III. (Eng., S. Mid.).		
Hampton.................	1·98	7·8
Chiswick (Sewage Works)...	2·38	7·8

August 1st.

II. (Eng., S.E.).	*in.*	or %
Chilham (Lower Ensden) ...	2·60	8·2
Canterbury (Irrigation Wks.)	2·26	7·6
Ramsgate (Southwood W.W.)	2·10	8·3
„ (Archer House) ..	2·05	8·0
Broadstairs (Providence Ho.)	2·10	8·0
Reculver	2·67	10·2
St. Peter's Court	1·95	8·4
Birchington (Hollydene)....	2·35	8·5
„ (Rose Bank) .	2·40	8·9
„ (Fernleigh) ...	2·34	8·8
Margate (Cliftonville)	2·50	..
„ „	1·88	8·2
Ospringe (Lorenden)	2·28	8·0
Faversham (Uplees Marshes)	1·57	7·9
Whitstable (Western House)	2·27	9·4
Sheppey (Eastchurch)	2·45	8·9

III. (Eng., S. Mid.).	*in.*	or %
Stockgrove Park	2·25	7·9
Wisbech (Queen's Road) ...	2·02	8·2
Parson Drove (Clows Cross).	1·58	7·8
IV. (Eng., E.).		
Shoeburyness	1·63	7·8
Southminster (New Moor) ..	2·10	9·0
Bradwell Hall	1·50	7·6
Cockfield Rectory	1·85	7·7
Herringswell Rectory	1·96	8·3
Wiggenhall (St.GermansSl'ce)	2·02	8·6
King's Lynn(Manure Works)	1·86	8·5
„ „	1·68	7·5
VII. (Eng., N. Mid.).		
Tydd (N. Level Sluice)	2·08	8·4

August 5th.

Heavy local thunderstorms occurred in Essex. At Castle Hedingham a road was washed away. At Saffron Walden, where much damage occurred from flooding, 3·08 in. is said to have been recorded in 2 hours, but we have not been able to obtain any confirmation of the record.

IV. (Eng., E.).	in.	or %
Halstead (The Brewery) ...	2·45	10·2
„ (Grammar School).	2·31	9·7

IV (Eng., E.).	in.	or %
Bulmer Lodge [Sudbury] .	2·00	7·9

August 8th.

The centre of a primary depression was travelling during this day from the neighbourhood of the Irish Sea in a north-westerly direction. Heavy and widespread rain occurred in the north-east of England, the bulk falling on the right-hand side of the track. It is not impossible, however, that the rain may have been associated with a secondary depression which moved eastward from the mouth of the English Channel. The rainfall was heaviest in the West Riding of Yorkshire and exceeded 3 inches round Ilkley.

VII. (Eng., N.Mid.).	in.	or %
Grantham (Saltersford)	1·68	7·5
Normanby................	2·08	8·2
Burton-upon-Stather Vic. ..	2·02	8·3
Elkesley (Pumping Station)	1·57	7·7
Worksop (Osberton Gardens)	1·60	7·8
„ (Wigthorpe Hill) .	1·68	8·3
IX. (Yorks.).		
Mexborough	1·70	8·1
Skipton (Embsay Moor Res.)	2·65	8·5
Rylstone Rectory	2·50	6·7
Ilkley (Glen Rosa)	3·48	8·6

IX. (Yorks.).	in.	or %
Ilkley (St. James' Road) ...	3·49	10·1
„ (Spence's Garden) ...	3·34	8·7
Bolton Abbey Estate Office	2·90	8·0
Barden Reservoir..........	2·93	7·2
Harrogate (Harlow Hill Res.)	2·18	8·5
„ (IrongateBdge.Res.)	2·42	8·1
Dalton Parsonage	1·69	7·9
Thirsk (Carlton Miniott)....	2·06	8·1
Newby Wiske	1·98	7·6
N. Otterington(SowberGate)	2·14	8·7

August 10th.

A low-pressure system moved slowly northward across Ireland, and heavy rain fell, chiefly in Leinster.

XXI. (Leinster).	in.	or %
Kilkenny Castle	2·50	8·4
Mountrath (Donore)	2·80	..
„ (Baunreagh).....	2·80	5·6
Birr (Moneyguyneen)	2·82	8·7

XXI. (Leinster).	in.	or %
Victoria Lock (Meelick)	2·43	7·8
Tullamore (Rathrobin) ...	2·80	6·5
Ferbane (Turraun Works)..	2·93	8·1

August 13th.

X. (Eng., N.).	in.	or %
RowlandsGill(Armstrong Col.)	2·72	8·1

XI. (Wales).	in.	or %
Taff Fechan (Neuadd Res. 4)	2·50	3·2
„ „ („ „ 11)	2·60	4·3

August 14th.

X. (Eng., N.).	*in.*	or %
Ryton-on-Tyne (BalgonieHo.)	2·55	8·2
XI. (Wales).		
Queen's Ferry (H.M.Factory)	2·50	9·4
XVI. (Scot., E. Mid.).	*in.*	or %
Forfar W.W. (Den of Ogil)	3·02	9·2
Glenogil Waterworks	3·40	10·0

August 17th.

VIII. (Eng., N.W.).	*in.*	or %
Oldham (Brushes Clough)	2·78	6·0
XI. (Wales).		
RhonddaW.W.(LlynFawrRes)	2·76	4·0
XI. (Wales).	*in.*	or %
Llyn-y-fan-fach	3·23	..
Swansea W.W. (Bwlch)	3·30	3·6

August 27th and 28th.

These two days formed, perhaps, a fitting climax to the series of cyclonic and thunderstorm rains which rendered the month of August one of the most unseasonable, and, from the agricultural standpoint disastrous, for many years. The rainfall of the 27th and 28th accompanied the passage from the south of Ireland to the North Sea of a depression somewhat deeper than the majority of its forerunners, and marked by very stormy weather. On the 27th more than 2 inches fell widely, occurring in the south of Ireland, Wales, Devonshire and Hampshire, but as much as 3 inches fell only at one station, in Co. Waterford and one in Co. Wicklow. On the 28th the principal centres of heavy rain were North Wales and the north-east of Scotland.

August 27th.

II. (Eng., S.E.).	*in.*	or %
Ryde (Pier Street)	2·32	8·9
XI. (Wales).		
Aberystwyth (Gogerddan)	2·65	5·2
XX. (Munster).		
Mallow (Summerhill)	2·95	8·8
Ballyhooley	2·54	4·4
Kanturk (Castlecor)	2·50	8·0
XX. (Munster).	*in.*	or %
Cappoquin House	3·40	8·4
Tramore (Midvale)	2·25	7·5
XXI. (Leinster).		
Roundwood (Vartry Lo.)	2·71	7·7
,,	3·30	8·6
,, (Knockatemple)	2·95	8·3
Glen-na-Smoel	2·50	5·7

August 28th.

XI. (Wales).	*in.*	or %
BirminghamW.W.(Claerwen)	2·55	3·6
Lake Eigiau (Dam Site)	3·14	4·2
Beddgelert (Council School)	2·60	2·8
Snowdon (Cwm Dyli)	3·04	3·0
XVII. (Scot., N.E.).	*in.*	or %
Cockbridge (Delnadamph)	2·65	7·5
XVIII. (Scot., N.W.).		
Loch Ness (Drumnadrochit)	2·63	6·7
Invergordon (The Ord)	1·99	7·5

September 5th.*

III. (Eng., S. Mid.). Hatfield (Surveyor's Office).... 1·97 in. or 7·5 per cent.

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* See *Meteorological Magazine*, Vol. , October, 1917, p. 101.

September 13th.

IX. (YORKS.). Ingleton (Kingsdale Head) .... 2·60 in or 3·5 per cent.

October 4th.

XVIII. (SCOT., N.W.). Skye (Scalpay Island) .... 2·80 in. or 4·0 per cent.

October 20th.

XV. (SCOT., W. Mid.).	*in.*	or %	XVIII. (SCOT., N.W.).	*in.*	or %
Movern (Kingairloch)	2·85	3·1	Skye (Dunvegan)	2·88	4·2
Mull (Knock)	3·90	5·6			
,, (Gruline).............	3·27	4·8			

October 22nd.

XVIII. (SCOT., N.W.) L. Arkaig (Achnacarry) ..... 2·53 in. or 3·3 per cent.

November 3rd.

XI. (CHAN. I.). Sark (Pointe Robert).......... 2·54 in. or 9·9 per cent.

November 5th.

A secondary depression passed across the north of Scotland and brought a rainfall more notable for its widespread nature than its amount. More than 2 inches fell in parts of Wales, in the English Lakes and in the south-west and centre of Scotland. Only one fall, as a matter of fact, qualified for insertion in the list.

XVI. (SCOT., E. MID.). Rosyth (H.M. Dockyard) .. 1·70 in. or 7·6 per cent.

November 23rd—30th.

A succession of depressions passed, during the last week of November, along a track of low-pressure, situated in the latitude of Iceland, and with conditions constantly suitable for strong westerly winds, a series of days of appalling wetness occurred in the western Highlands, and extended at times, though with diminished effect, southward into English Lake district. On each day of the eight grouped together for consideration more than 2 inches fell in some part of the district mentioned; on three days falls of over 4 inches occurred. The days of most widespread rain were the 26th, when more than 2 inches fell in an unbroken area, extending from North Wales into Inverness-shire, and the 28th and 29th, with more than 2 inches from Renfrewshire northward to the borders of Sutherlandshire, on each day. On the 28th more than 4 inches fell in northern Argyll and southern Inverness-shire, with 5·82 in. at Kinlochquoich and 4·67 in. at Glenquoich, some 4 miles further east.

With possibly the exception of the great falls in Glenquoich just referred to the period was certainly more remarkable for sustained heavy rainfall than for the fall on individual days, and for this reason we have not attempted to prepare maps which would probably be largely repetitions of one another. We add, however, in addition to the usual list of maximum falls a table giving the daily rainfall for the eight days at a few representative stations.

Daily Rainfall in the West Highlands, November 23rd-30th, 1917.

1917 Nov.	Kinlochleven, Argyll. *in.*	Glen Etive, Argyll. *in.*	L. Awe, Dalavich, Argyll. *in.*	Glenorchy Manse, Argyll. *in.*	L. Eck, Benmore, Argyll. *in.*	Kinlochquoich, Inverness. *in.*	Glenquoich, Inverness. *in.*	Glen Dessary, Inverness. *in.*	Kinlochmore, Inverness. *in.*	Glencarron, Ross. *in.*
23..	1·96	1·37	1·50	1·52	1·40	4·47	2·72	2·10	3·06	3·28
24..	·68	·17	·81	1·01	1·06	1·53	·90	1·50	·92	·65
25..	·22	·19	·02	·09	·10	·05	·10	·75	·25	·15
26..	1·64	2·80	3·29	3·75	2·65	3·41	2·95	·82	1·98	1·22
27..	·72	1·15	·62	·55	·42	2·85	2·16	1·84	1·22	1·70
28..	4·05	4·06	2·69	2·43	3·60	5·82	4·67	2·20	4·05	2·03
29..	2·90	2·16	4·20	3·25	2·95	1·75	1·79	2·00	2·83	1·34
30..	·97	2·35	2·29	1·10	·76	2·85	2·20	1·94	1·42	1·20
Total	13·14	14·25	15·42	13·70	12·94	22·73	17·49	13·15	15·73	11·57

November 23rd.

XVIII. (Scot., N.W.).	*in.*	or %
Glencarron Lodge..........	3·28	3·8

XIX. (Scot., N.).	*in.*	or %
Loch More Achfary	3·62	4·0

November 25th.*

XV. (Scot., W. Mid.). Duror (The Rectory).... 2·53 in. or 3·7 per cent.

November 26th.

VIII. (Eng., N.W.).	*in.*	or %
Pennybridge School........	2·52	4·6
Coniston (Holywath)	3·05	3·4
IX. (Yorks.).		
Slaidburn (Whitendale)	3·50	5·0
X. (Eng., N.).		
Borrowdale (Seathwaite) ...	3·47	2·8
Dungeon Ghyll............	3·06	2·1
XII. (Scot., S.).		
Carsphairn (Shiel)	2·84	4·1
XIV. (Scot., S.W.).		
New Cumnock (Power Stat.)	2·63	4·2
XV. (Scot, W. Mid.).		
Morvern (Ardtornish)......	3·09	4·4
Ardgour House............	3·45	3·5

XV. (Scot., W. Mid.).	*in.*	or %
Loch Eil (Corran)	3·03	3·6
Taynuilt (Barguillean)	2·61	4·2
Loch Awe (Ford)	3·28	4·6
Dalmally (Glenorchy Manse)	3·75	4·5
Lochgilphead (Poltalloch)...	2·80	4·9
Ardfern (Innisaeg)	2·63	5·2
Skipness Castle............	2·61	5·0
Ardrishaig (Canal Office) ...	3·77	6·0
Innellan	2·71	4·7
Dunoon Reservoir	2·60	3·2
Holy Loch (Ardnadam) ...	2·60	3·6
Fladda Lighthouse	2·53	4·7
Mull (Glencannel)	3·14	3·0

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* See *Meteorological Magazine,* Vol. 52, January, 1918, p. 141.

November 28th.

XIV. (Scot., S.W.).	*in.*	or %	XV. (Scot., W. Mid.).	*in.*	or %
Shaws W.W. (Hole Glen)	2·85	4·5	Glen Etive	4·06	4·1
XV. (Scot., W. Mid.).			Loch Eck (Benmore)	3·60	4·3
Arrochar (Glen Loin)	3·53	4·5	XVIII. (Scot., N.W.).		
Duchray Valley (Comer)	3·10	4·0	L. Quoich (Kinlochquoich)	5·82	4·0
Stronachlachlar (Invergyle)	3·50	4·9	„ (Glenquoich)	4·67	4·1
Glenleven(BlackwaterDamS.)	3·67	4·8	Glenleven(BlackwaterDamN)	3·05	3·9
„ (Kinlochleven)	4·05	4·8	„ (Kinlochmore)	4·05	4·4

November 29th.

XIV. (Scot., S.W.).	*in.*	or %	XV. (Scot., W. Mid.).	*in.*	or %
Glengarnock (Chemical Wks)	2·78	4·9	Torrance (Glenorchard)	2·60	6·6
Lochwinnoch (Garthland)	4·00	5·9	Loch Awe (Dalavich)	4·20	4·8
Howwood (Midton House)	2·81	4·9	Dunoon (Castle Gardens)	2·58	3·7
Kilbarchan (Glentyan)	2·58	4·8	„ Reservoir	2·60	3·2
XV. (Scot., W. Mid.).			„ (Redhurst)	2·70	3·8
Milngavie (Douglaston)	2·77	6·5	Lochgoilhead (Nuthill)	2·50	3·6

December 5th.

XI. (Wales). Blaenau Festiniog (Llechwedd Quarries).. 2·79 in or 2·6 per cent.

Part II.—Abstract.

The summary tables which follow give an epitome of the year's character from the point of view of heavy daily rainfalls and provide the means of comparing this with similar data for some previous years. It is not surprising to find that Tables I. and II., comprising the twenty largest daily rainfalls, and the twenty largest percentage values observed during 1917, are monopolized almost exclusively by the unprecedented fall of June 28th, which was nearly as remarkable for the large percentage which it yielded of the year's total as it was for the actual amount of the fall. The three highest figures on the list of largest falls each surpasses the largest previously recorded, viz., 8·20 in., on October 11th, 1916, at Kinlochquoich. Only one record appears for any other date than June 28th, the great fall of 5·82 in., at Kinlochquoich, on November 28th, qualifying for inclusion by a small margin. Table II. also contains only one record apart from June 28th, that at Cam House, Kensington, on June 16th, itself an absolutely unprecedented rainfall for London. The highest percentage value quoted, 21·8 per cent., at Aisholt, does not, unfortunately, quite do justice to the occasion, since the year's record at Sexey's School, Bruton, was by a most unfortunate chance incomplete. Had the total fall at Sexey's School been the same as that at King's School,

TABLE I.—*The Largest Daily Rainfalls in* 1917.

Date.	Div.	Station.	Depth.	Per Cent.	Total.
			in.		in.
June 28	V.	Bruton, Sexey's School	9·56	..	..
,, ,,	,,	,, King's School	8·48	20·2	41·96
,, ,,	,,	Aisholt, Timberscombe	8·39	21·8	38·20
,, ,,	,,	Bruton, Pitcombe Vicarage	7·90	20·6	38·24
,, ,,	,,	Cothelstone House	7·05	18·9	37·38
,, ,,	,,	Castle Cary, Alford House	6·95	19·0	36·53
,, ,,	,,	Somerton, Butleigh Gardens	6·75	20·1	32·34
,, ,,	,,	Stourhead Gardens	6·50	16·1	40·42
,, ,,	,,	,, School	6·50	..	..
,, ,,	,,	Somerton, Corvile	6·10	..	..
,, ,,	,,	Wincanton, Roundhill Grange ...	6·02	16·5	36·51
,, ,,	,,	Tisbury, Pythouse	6·01	..	..
,, ,,	,,	Ashcott School	6·00	..	..
,, ,,	,,	Tisbury, The Academy	5·87	14·5	40·04
,, ,,	,,	Street, Leigholt Reservoir	5·85	19·7	29·73
Nov. 28	XVIII.	Kinlochquoich	5·82	4·0	145·64
June 28	V.	Somerton, Butleigh Court	5·76	16·7	34·31
,, ,,	,,	Fonthill House	5·74	14·4	40·00
,, ,,	,,	Mere, Charnage	5·69	15·9	35·68
,, ,,	,,	Street, Overleigh House	5·61	18·0	31·17

TABLE II.—*The Largest Daily Percentages in* 1917.

Date.	Div.	Station.	Per Cent.	Depth.	Total.
				in.	in.
June 28	V.	Aisholt, Timberscombe	21·8	8·39	38·20
,, ,,	,,	Bruton, Pitcombe Vicarage......	20·6	7·90	38·24
,, ,,	,,	,, King's School	20·2	8·48	41·96
,, ,,	,,	Somerton, Butleigh Gardens	20·1	6·75	32·34
,, ,,	,,	Street, Leigholt Reservoir	19·7	5·85	29·73
,, ,,	,,	Castle Cary, Alford House	19·0	6·95	36·53
,, ,,	,,	Cothelstone House	18·9	7·05	37·38
,, ,,	,,	Street, Council Yard............	18·2	5·60	30·32
,, ,,	,,	,, Overleigh House	18·0	5·61	31·17
,, ,,	,,	Somerton, Butleigh Court	16·7	5·76	34·31
,, ,,	,,	Wincanton, Roundhill Grange ...	16·5	6·02	36·51
,, ,,	,,	Street, Millfield	16·4	5·13	31·43
,, ,,	,,	Stourhead Gardens	16·1	6·50	40·42
,, ,,	,,	Mere, Charnage	15·9	5·69	35·68
,, ,,	,,	Cannington, Brymore	15·6	4·91	31·17
,, ,,	,,	Street, Hind Hayes.............	15·6	4·86	31·24
,, ,,	,,	North Petherton, Shovel	15·4	4·80	31·11
,, 16	I.	Kensington, Cam House	15·2	4·65	30·65
,, 28	V.	Bridgwater, Blake Gardens......	15·0	4·45	29·92
,, ,,	,,	Bourton	14·7	5·55	37·62

TABLE III.—*Comparison of Maximum Fall and Maximum Percentage with those in previous years.*

Year.	ABSOLUTE HIGHEST RAINFALL.				ABSOLUTE HIGHEST PERCENTAGE.				Year.
	Depth	Per cent.	STATION.	Div.	Per cent.	Depth	STATION.	Div.	
	in.					in.			
				1865—1869.					
1869	6·07	4·5	Seathwaite ...	10	17·7	4·78	Hartlip	2	1867
					10·0	2·48	Burton	6	1866
1867	4·71	17·7	Hartlip	2	10·0	3·40	Tillydesk	17	1869
1870	6·00	17·1	Tongue	19	17·1	6·00	Tongue	19	1870
1871	4·24	9·6	Melbury	5	11·5	3·62	Warter	9	1871
1872	5·82	3·2	Seathwaite	10	10·0	3·70	Hillington Hall	4	1872
1873	4·20	2·9	,, ...	,,	11·8	2·77	Oscott	6	1873
1874	5·32	4·4	Bryn Gwynant	11	11·9	2·50	Welwyn	3	1874
1875	5·33	9·7	Newport W.W	,,	13·2	3·95	Letheringsett	4	1875
1876	4·50	5·5	Foffany	23	*8·5*	3·70	Cragside	10	1876
1877	4·98	5·3	Skye, Portree ..	18	9·3	3·09	Wellington	6	1877
1878	4·24	8·6	Springfield	11	11·8	3·90	Haverstock Hill ..	1	1878
1879	*4·05*	4·1	Little Langdale	10	12·3	3·80	Cambridge,MertonV.	3	1879
1880	4·75	3·9	Seathwaite	,,	11·7	3·34	Marmont PrioryLock	,,	1880
1881	5·42	4·7	Sligachan......	18	10·6	3·20	Aboyne Castle	17	1881
1882	4·51	3·0	Seathwaite	10	9·1	2·80	Bothalhaugh	10	1882
1883	5·27	9·0	Glen-na-Smoel	21	12·3	4·31	Skegness	7	1883
1884	6·78	5·0	Seathwaite	10	13·8	2·66	Diss, Thelveton	4	1884
1885	4·62	3·2	,, ...	,,	9·6	2·62	Beccles, Ellough....	4	1885
1886	4·20	9·9	Little Bredy ..	5	11·5	4·10	Leeds, Methley Park	9	1886
1887	4·93	13·0	Galway, Q.Coll.	22	13·0	4·93	Galway,Queen's Coll.	22	1887
1888	5·20	5·4	Wythburn Vic.	10	11·8	3·24	Rothamstead	3	1888
1889	4·45	16·5	NorthOckendon	4	16·5	4·45	North Ockendon ..	4	1889
1890	7·29	3·7	Ben Nevis Obs.	18	17·2	3·68	Slough, Lanley	3	1890
1891	6·14	4·2	Seathwaite	10	14·4	4·00	Montrose, Sunnyside	16	1891
1892	5·80	4·5	,, ...	,,	15·0	4·27	Flax Bourton	5	1892
1893	4·96	3·5	,, ...	,,	16·2	4·48	Cranmer Hall	4	1893
1894	7·74	5·1	Ben Nevis Obs.	18	11·1	3·56	Sidcup	2	1894
1895	4·83	16·1	Mellington Hall	11	16·1	4·83	Mellington Hall	11	1895
1896	4·59	3·7	Seathwaite	10	11·1	2·78	Barkby	7	1896
1897	8·03	5·6	,, ...	..	14·1	*2·40*	ChatterisHorsewayL	3	1897
1898	6·70	18·1	Angerton Hall	,,	18·1	6·70	Angerton Hall	10	1898
1899	5·21	5·6	Grange	,,	14·6	3·10	Wallingford........	2	1899
1900	5·40	11·9	Ilkley,Cherry Bk	9	13·1	4·50	Gilstead Filters	9	1900
1901	5·66	5·7	Dungeon Ghyll	10	17·9	4·24	Maidenhead,TheFirs	2	1901
1902	5·92	3·8	Ben Nevis Obs.	18	15·5	3·51	Esher Sewage Works	,,	1902
1903	4·78	*2·2*	,, ,, ,,	..	12·8	4·41	Dartford,WestHillH.	,,	1903
1904	5·62	6·0	Skelwith Bridge	10	15·8	3·48	Leamington,BinswoodAv	6	1904
1905	5·71	14·0	Glen-na-Smoel	21	14·9	3·98	Cofton Vicarage ..	5	1905
1906	6·15	4·7	Seathwaite	10	11·9	2·50	Cambridge, Herschell H.	3	1906
1907	4·86	9·4	Kingsbridge ..	5	12·5	3·40	Lincoln, St.Botolph's	7	1907
1908	4·80	9·9	Treharris	11	16·0	3·45	Great Glemham ..	6	1908
1909	6·46	5·7	Kinlochquoich	18	11·1	3·30	TidworthH.[Ludgershall]	2	1909
1910	4·51	3·4	Seathwaite	10	13·0	3·93	WheatleyWaterstock	3	1910
1911	7.00	4·7	,, ...	,,	14·2	3·25	Haxby, Moorlands	9	1911
1912	7·31	21·3	Brundall	4	22.2	6·67	Norwich CarrowHo.	4	1912
1913	6·06?	26·0?	DoncasterW.W.	9	26·0?	6·06?	DoncasterPump'gStn	9	1913
1914	6·35	4·1	Pen-y-Gwryd ..	11	14·8	3·35	Upminster	4	1914
1915	7·06	19·7	Dalcross	18	19·7	7·06	Dalcross	18	1915
1916	8·20	5·7	Kinlochquoich	18	13·1	3·91	Portland Bill	5	1916
1917	9·56	..	Bruton	5	21·8	8·39	Aisholt............	5	1917

close by, the percentage yielded by the reading of 9·56 in. would have been 22·8. This is very close to the value of 22·2, at Carrow House, Norwich, for the East Anglian rainfall of August 26th, 1912. The only other occasion with so high a percentage was September 17th, 1913, when three stations at Doncaster exceeded 22 per cent. of their small annual total, one yielding 26·0. A comparison of the highest figures in Tables I. and II. respectively with the highest observed each year in the past is given in Table III.

Table IV. deals with all daily rainfalls of specified magnitude instead of only the maximum fall for the year, and is intended to give some indication of their prevalence for comparison with 1915 and 1916. It will be observed that whilst falls of 2 inches or more were less numerous than in either of the two preceding years, falls of 3 inches and 4 inches in England were far more numerous. It is noteworthy that no station in Ireland recorded a 4 inch fall during 1917.

TABLE IV.—*Comparison of Heavy Daily Rainfalls.*

		No. of Records.	Falls of 7·5 per cent. or more.		Falls of 2·00 in. or more.		Falls of 3·00 in. or more.		Falls of 4·00 in. or more
			No.	Per cent. of total.	No.	Per cent. of total.	No.	Per cent. of total.	No.
ENG. & WALES,	1915	3745	112	3·0	748	20·0	41	1·1	1
	1916	3626	62	1·7	646	17·8	88	2·4	10
	1917	3426	311	9·1	621	18·1	155	4·5	59
SCOTLAND,	1915	550	26	4·7	212	38·5	33	6·0	1
	1916	533	17	3·2	353	66·3	60	11·2	12
	1917	558	5	0·9	209	37·5	36	6·5	9
IRELAND,	1915	256	0	0	71	27·7	8	3·1	0
	1916	243	3	1·2	118	48·6	21	8·7	7
	1917	239	15	6·3	62	25·9	4	1·7	0
BRITISH ISLES,	1915	4551	138	3·0	1031	22·6	82	1·8	2
	1916	4402	82	1·9	1117	25·4	169	3·8	29
	1917	4223	331	7·8	892	21·2	195	4·6	68

MONTHLY RAINFALL IN 1917.

IT has not been considered desirable to abridge this section which presents the most complete account we are able to give of the distribution of rainfall in each month of 1917. The information is, as usual, given in two forms (i.) by means of tables, and (ii.) by means of maps, and in each form we give independently the actual rainfall as observed, and secondly the rainfall expressed as a percentage of the average of the period 1875-1909. The actual rainfall is shown in the left-hand map of each pair from pages [64] to [87], constructed from more than 2000 records, and a selection of 299 of these records, equably distributed over the country is given in Table II. The right-hand map of each pair is constructed from the values in Table I., with a few additional records not included in the table, making in all about 120 points of observation. These maps show the percentage of the average which fell in different parts of the British Isles. The means derived respectively from Tables I and II. give fairly close approximations to the general values for each of the countries and for the British Isles as a whole.

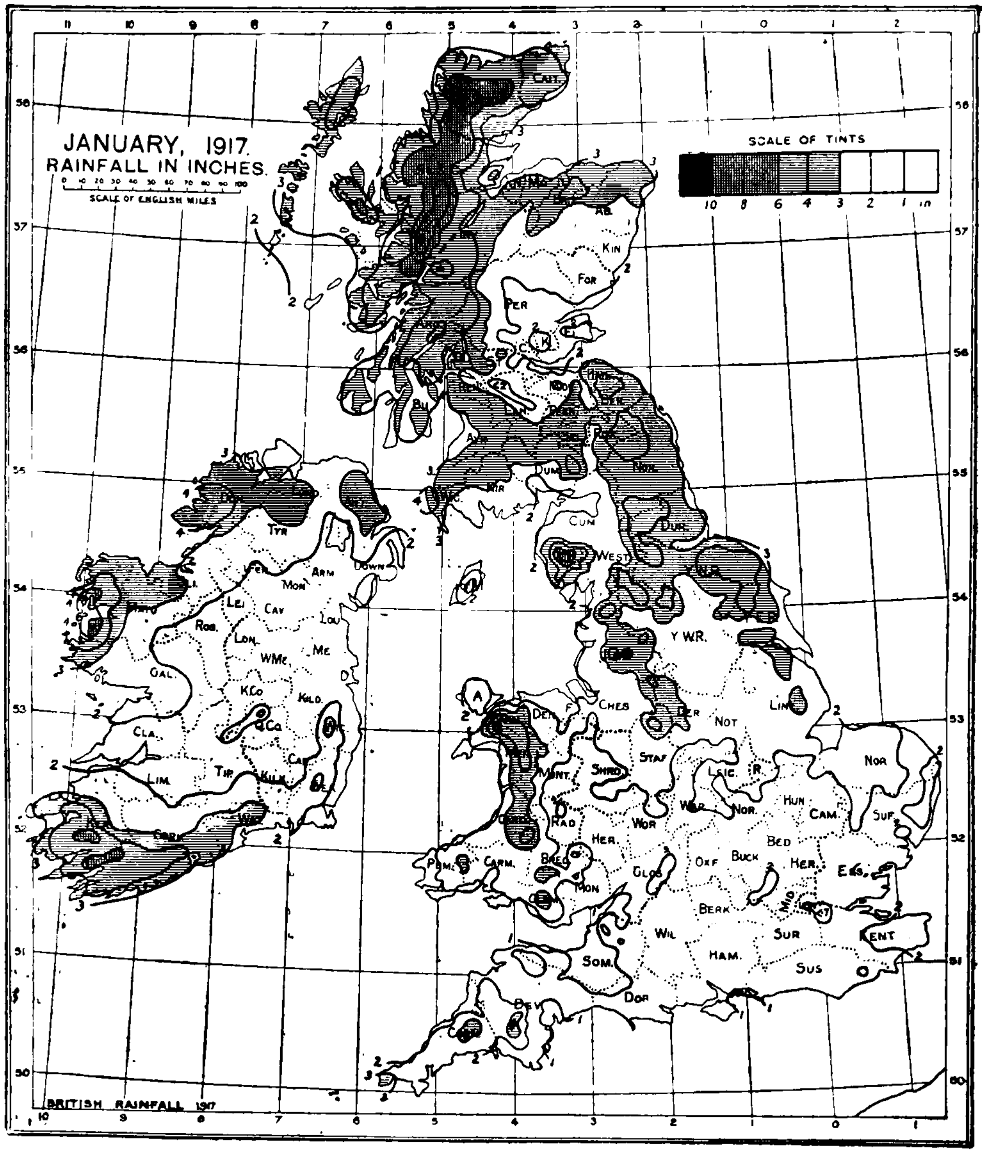
Summarizing very briefly these means, we see that in 1917 for the **British Isles** as a whole only four months, May, August, October and November had more than their average rainfall, and of these, May and November had extremely small excesses. August and October were thus the only two really wet months, and August, with 173 per cent. of the average, was a month of very exceptional wetness. Of the remaining eight months June had exactly the average and March and April were less than 10 per cent. in defect. February was very dry with only 47 per cent. of the average, whilst December had 58 per cent. The conspicuous feature of the year was the persistent dryness of the winter months.

In **England,** four months, March, June, August and October had more than the average fall, but March and June had only nominal excesses of 6 and 7 per cent., respectively, the latter being in fact a dry month over the country generally, marked by two unprecedentedly heavy local downpours in the south, which brought the general value above the average. August and October were the only months of widespread wetness, and August, with 194 per cent. of the average, was one of the most remarkable summer months ever experienced, although August, 1912, had a rainfall 216 per cent. of the average. Of the dry months April and May, with 97 and 91 per cent. of the average respectively, were only slightly deficient in rainfall. July was somewhat similar in character to June. February and December, with 45 and 51 per cent., respectively, were exceptionally dry.

Wales differed from England in having a wet May, but otherwise only August and October had more than their average rainfall. August, however, was wetter in Wales than in any other part of the British Isles, having no less than 228 per cent. of its average rainfall. March and June were months of practically normal fall, and January, February and December were very dry, the last mentioned yielding only 37 per cent. of the average.

Scotland had more than the average fall in June, August, September, October and November, but the excesses in June and September were only trifling and these may be classed with April and May, each with 97 per cent. of the average, as months of normal fall. August, with 123 per cent. was considerably less wet in Scotland than elsewhere, but October and November were both wetter than in any other country, the West Highlands especially experiencing extremely abnormal conditions during the autumn months. Of the dry months February and July were the most notable, the value of 34 per cent. for February being the smallest general percentage in the year for any month in any of the countries. The general scarcity of rain in the winter months and concentration of the bulk of the year's fall in the autumn was, perhaps, more marked in Scotland than in any other district.

In **Ireland,** March, May, August, October and November had more than the average fall, but the excess was not more than 10 per cent. in March and November. August, with 181 per cent., was, as elsewhere, a month of very unusual wetness. No month was of exceptional dryness, January and February, each with 65 per cent. of the average, being those of greatest deficiency. September, with 73 per cent., and April and June, with 86 and 87 per cent., respectively, were slightly drier than elsewhere.


JANUARY, 1917.
RAINFALL IN INCHES.
0 10 20 30 40 50 60 70 80 90 100
SCALE OF ENGLISH MILES
SCALE OF TINTS
10 8 6 4 3 2 1 in
CAIT.
AB.
KIN
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BERK
MID.
SUR
KENT
SUS
WIL
HAM.
SOM.
DOR
DEV
CARM.
PEM.
BREC.
RAD
MONT.
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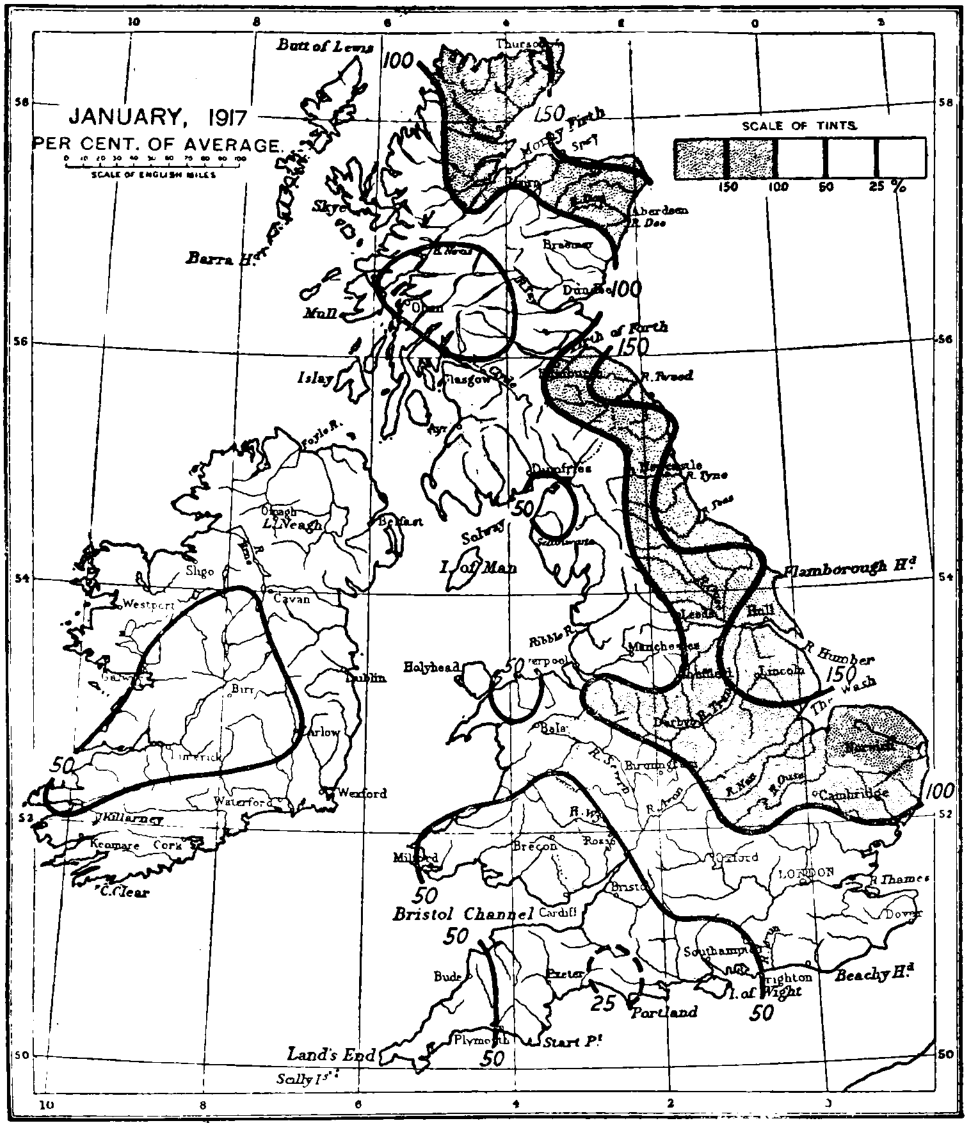
CORK
D
BRITISH RAINFALL 1917

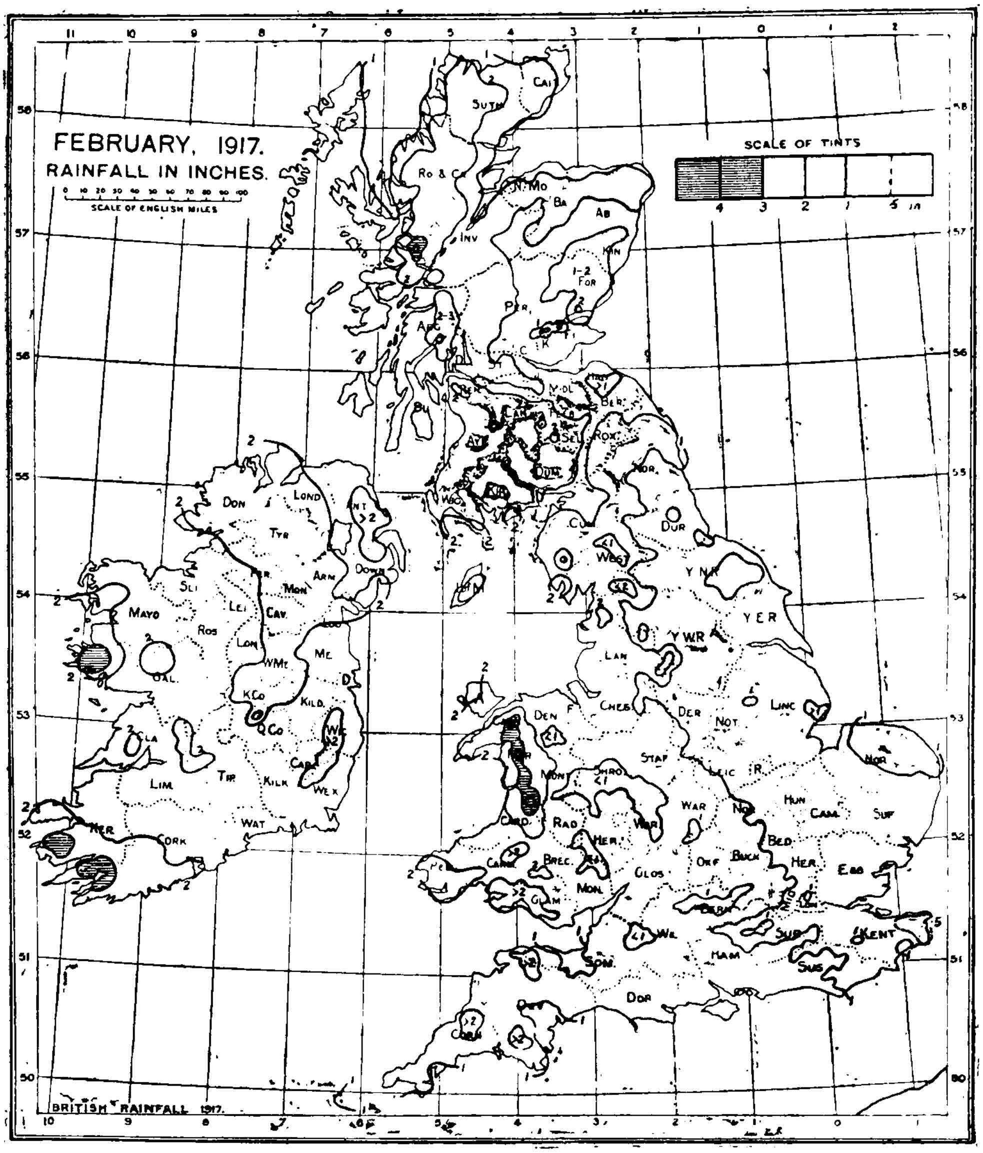
January—In the early part of the month a number of depressions passed across the British Isles in a south-easterly direction, and, as is usually the case in such circumstances, the bulk of the precipitation occurred on the east coasts. After about the 15th anticyclonic conditions prevailed, and the rainfall was scanty, but a remarkable snowfall occurred in Ireland on the 25th. Snow fell also in considerable quantities in the north about the middle of the month. The only large areas with less than 2 inches of rain were the south of England and the centre of Ireland, but more than 3 inches fell widely only in the north of England, the north and south of Ireland, and over the greater part of Scotland. Areas with as


JANUARY, 1917
PER CENT. OF AVERAGE.
SCALE OF ENGLISH MILES
SCALE OF TINTS.
150
100
50
25 %
Butt of Lewis
Thurso
Moray Firth
Spey
Aberdeen
R. Dee
Skye
Barra Hd
Mull
Oban
Braemar
Dundee
Firth of Forth
R. Tweed
Islay
Glasgow
Ayr
Dumfries
Solway
I. of Man
R. Tyne
Flamborough Hd
Hull
R. Humber
The Wash
Lincoln
Leeds
Manchester
Liverpool
Holyhead
Bala
Derby
Birmingham
Cambridge
Oxford
LONDON
R. Thames
Dover
Beachy Hd
Brighton
I. of Wight
Southampton
Portland
Start Pt
Plymouth
Land's End
Scilly Is
Bude
Exeter
Bristol Channel
Cardiff
Bristol
Brecon
Ross
Milford
Foyle R.
L. Neagh
Belfast
Sligo
Westport
Cavan
Dublin
Birr
Limerick
Carlow
Waterford
Wexford
Killarney
Kenmare
Cork
C. Clear
100
150
100
150
50
50
150
100
50
50
50
50
25
50
50

much as 6 inches were unusually limited for the season, the only one of any considerable size lying in the north-west Highlands.

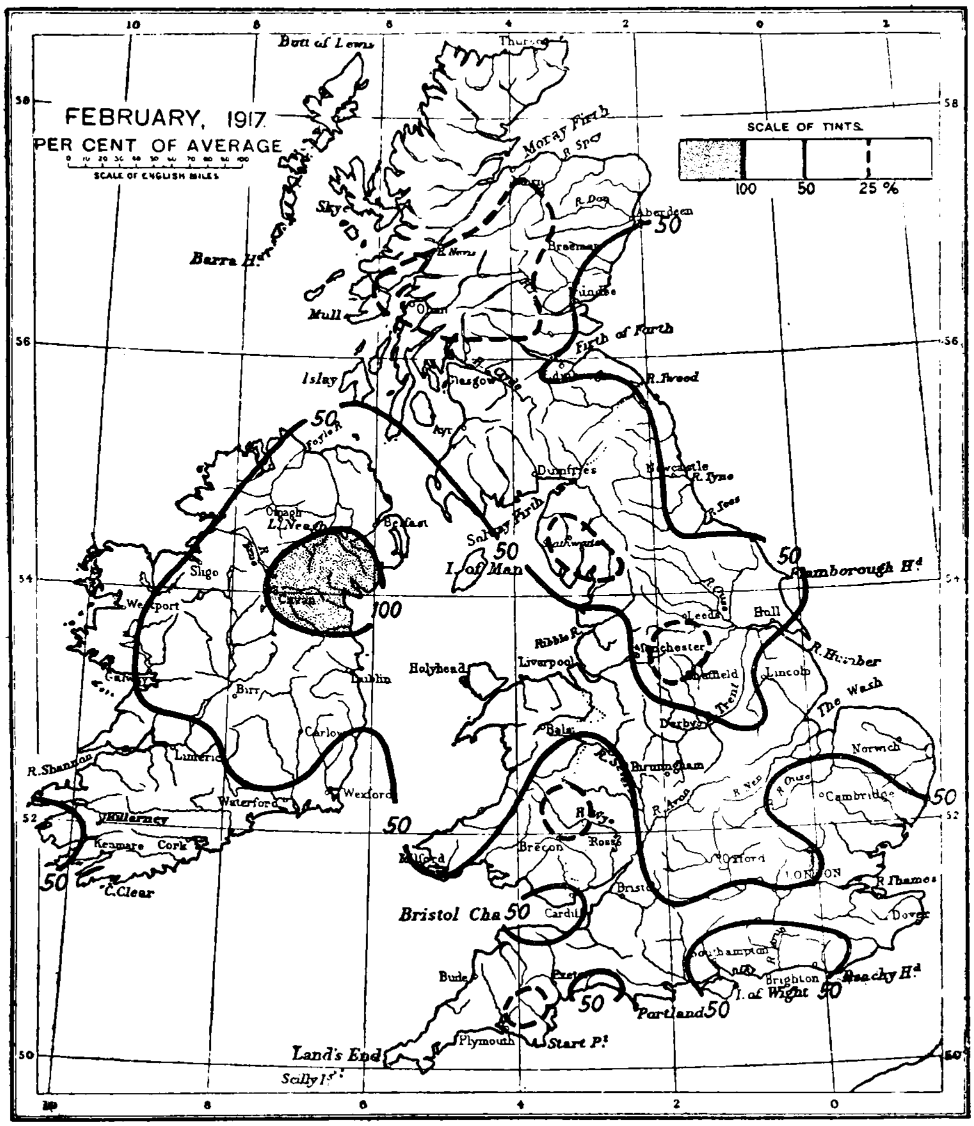
The rainfall exceeded the average along the east coast from the north of Scotland to Ipswich, and over narrow coastal strips north of the Wash more than 50 per cent. excess fell. Less than half the average fell over a number of areas in the western portions of each country, the largest being in the south-west of England and Wales.

The general rainfall showed a deficiency of 20 per cent. in England, 51 per cent. in Wales, 24 per cent. in Scotland, and 35 per cent. in Ireland, the deficiency for the British Isles being 28 per cent.


FEBRUARY, 1917.
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS
4
3
2
1
·5 in
BRITISH RAINFALL 1917.

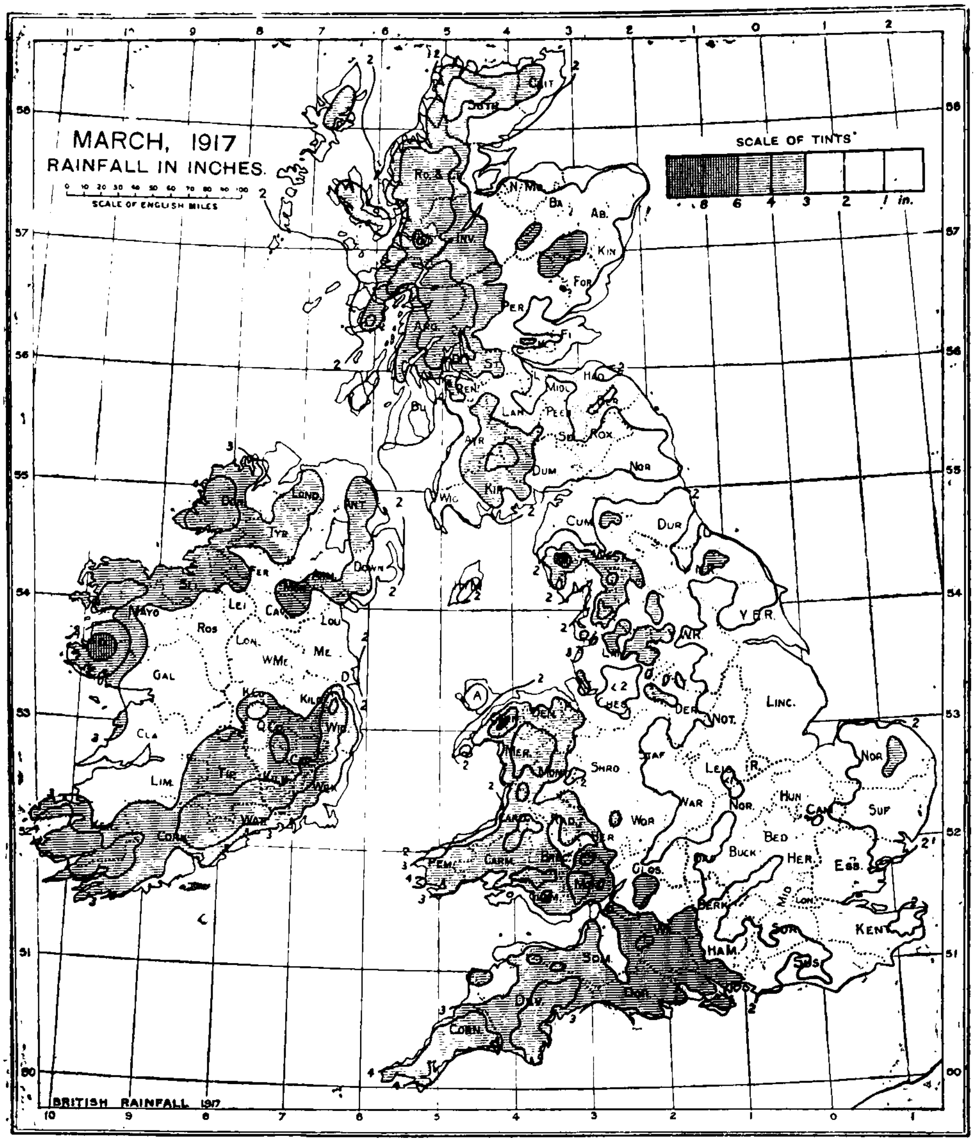
February, which was both absolutely and relatively the driest month of the year, was almost entirely dominated by anticyclonic conditions. The total rainfall was less than 1 inch in the eastern half of England, over most of the east of Scotland, and in isolated areas in the Midlands and south-west of England, but apparently nowhere in Ireland. Apart from these areas the amount of rainfall was extraordinarily uniform, being between 2 and 3 inches over practically the whole of the remainder of the British Isles. The areas in which more than 3 inches fell lay in North Wales, the West Highlands, and the west of Ireland, but they were so restricted as to be almost negligible.

A small patch in the north-east of Ireland had slightly over the average

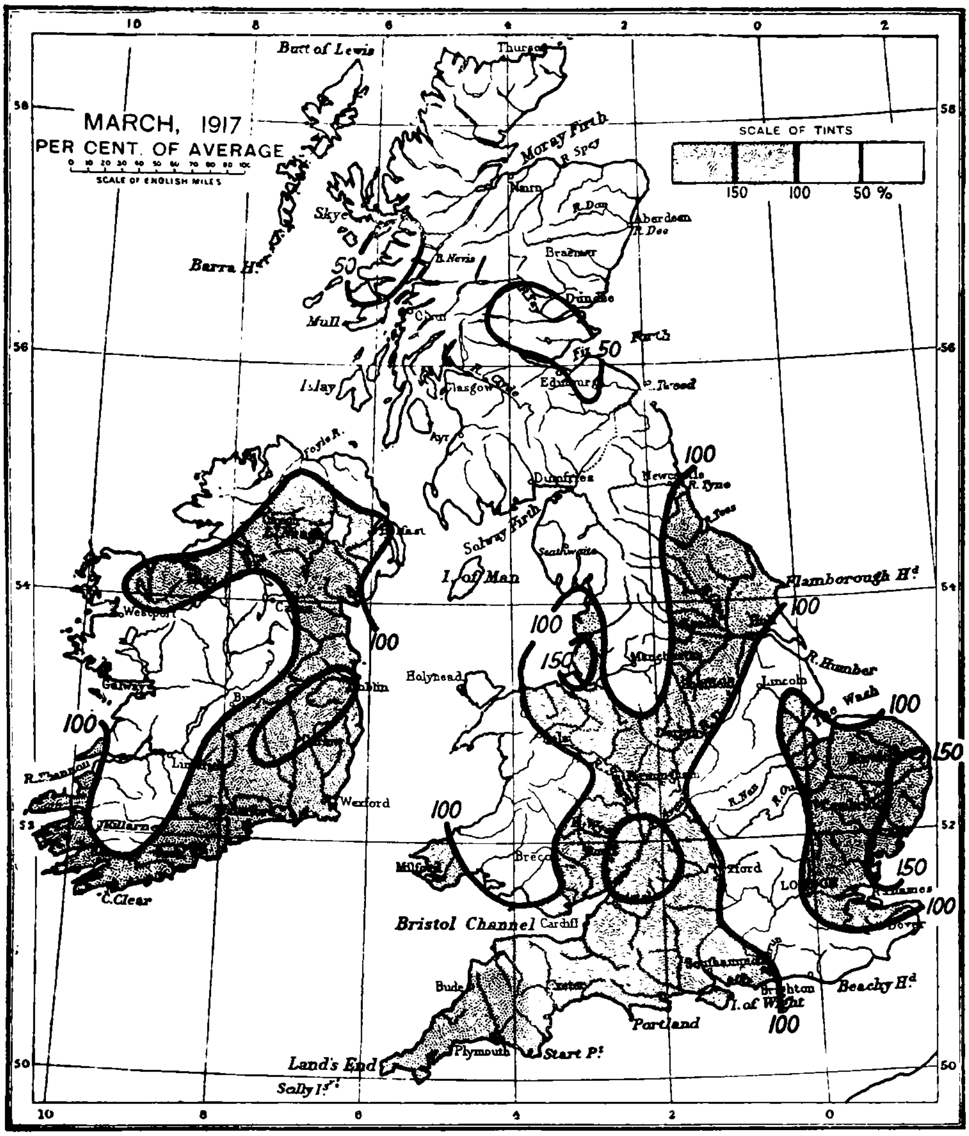

FEBRUARY, 1917.
PER CENT OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
100
50
25 %
50
100

fall, and less than 50 per cent. in defect was observed over a broad band which stretched from the north-west of Ireland across North Wales and the English Midlands to the Wash. A narrow strip of the east coast, between Aberdeen and Whitby, and various isolated patches in the south, also had rather more than half their average fall. Less than a quarter of the average fell over the centre of Scotland, parts of the Pennine district, central Wales, and Dartmoor.

Scotland was the driest of the larger divisions of the Kingdom, having a deficiency of 66 per cent., England had 55 per cent. below the average, Wales 48 per cent. and Ireland 35 per cent., whilst for the British Isles there was a deficiency of 53 per cent.


MARCH, 1917
RAINFALL IN INCHES
0 10 20 30 40 50 60 70 80 90 100
SCALE OF ENGLISH MILES
SCALE OF TINTS
8 6 4 3 2 1 in.
BRITISH RAINFALL 1917

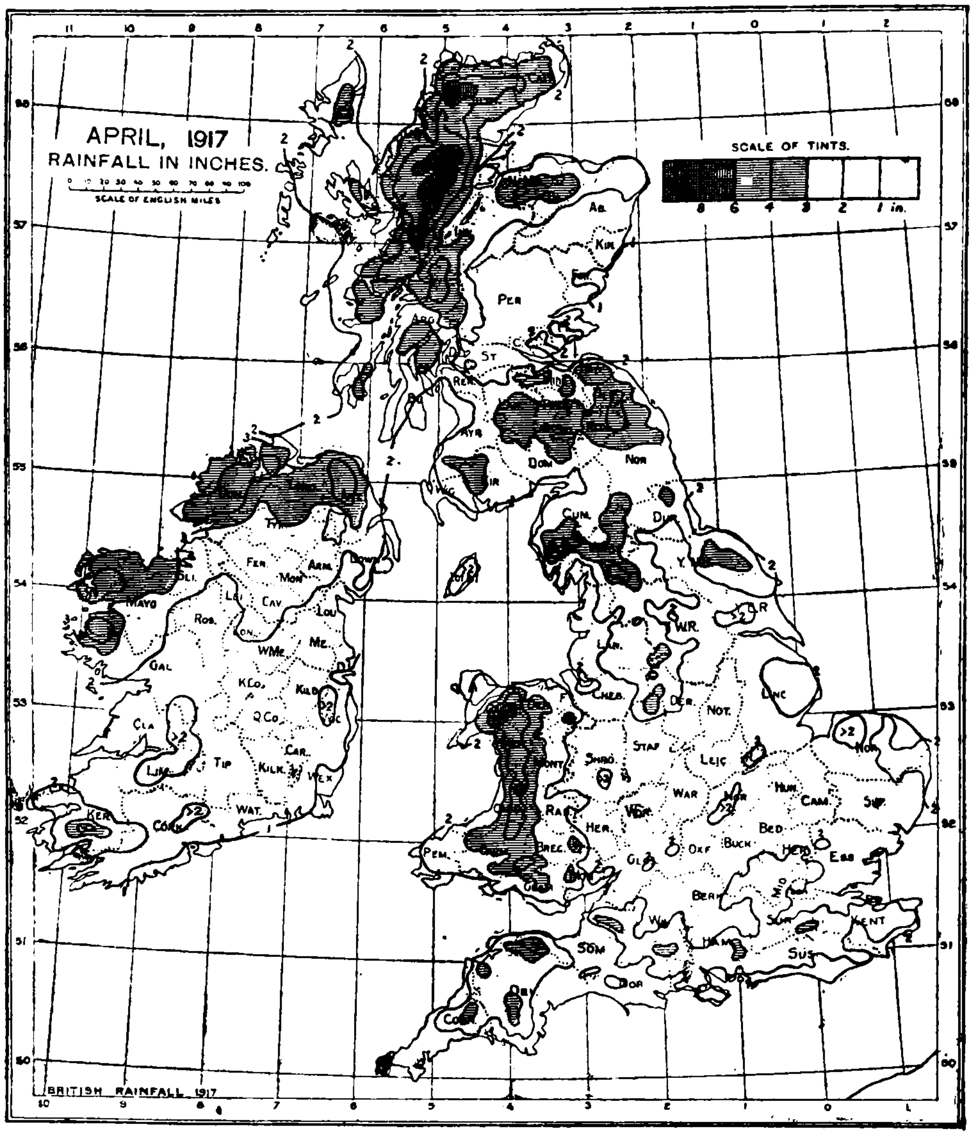
March—Changeable and unsettled conditions prevailed almost throughout, the broad features of the barometric distribution being high pressure to the north in the early part of the month, and to the west in the latter part. The rainfall, although heavy at times, was patchy and not, on the whole, excessive. Less than 2 inches fell over the greater part of the east of England and over narrow coastal strips practically surrounding Scotland, as well as on the shores surrounding the Irish Sea. More than 4 inches fell over a considerable part of the West Highlands, in the northern Pennines and English Lakes, and over much of Wales, Devon and Cornwall. In Ireland patches with more than 4 inches occurred on the west coast, and a long unbroken strip with this amount extended


MARCH, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
150
100
50 %
Butt of Lewis
Thurso
Moray Firth
R. Spey
Nairn
R. Don
Aberdeen
R. Dee
Skye
Barra Hd
B. Nevis
Braemar
Dundee
Mull
Firth of Forth
Islay
Glasgow
Edinburgh
R. Tweed
Ayr
Dumfries
Newcastle
R. Tyne
R. Tees
Solway Firth
I. of Man
Flamborough Hd
R. Humber
Lincoln
Wash
Westport
Galway
R. Shannon
Killarney
C. Clear
Wexford
Holyhead
Brecon
Milford
Bristol Channel
Cardiff
Bude
Exeter
Plymouth
Start Pt
Land's End
Scilly Is
Portland
I. of Wight
Brighton
Beachy Hd
Dover
Thames
London
50
100
150

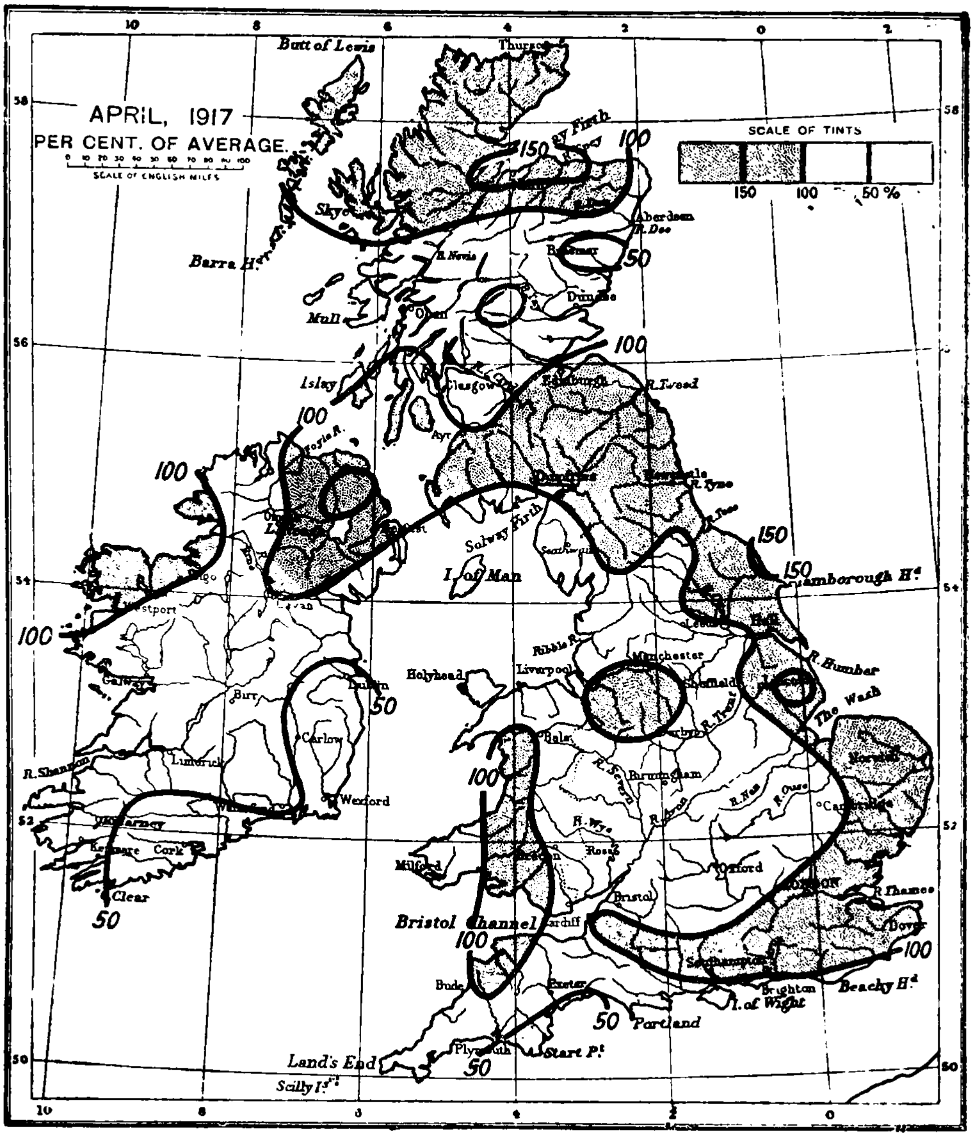
from Cork to Dublin. Falls of as much as 6 inches were very local.

In Scotland the rainfall was everywhere below the average, the deficiency being more than 50 per cent in places. Irregularly shaped areas in Ireland and in Great Britain south of the Tyne had more than the average, but the Pennines, the greater part of Wales, the east Midlands of England, and the western half of Ireland, had rather less than their average fall.

In Scotland there was a general deficiency of 31 per cent., but in the other countries the excesses and deficiencies nearly balanced, England having an excess of 6 per cent., Ireland of 3 per cent., and Wales a deficiency of 2 per cent. The British Isles had a deficiency of 8 per cent.

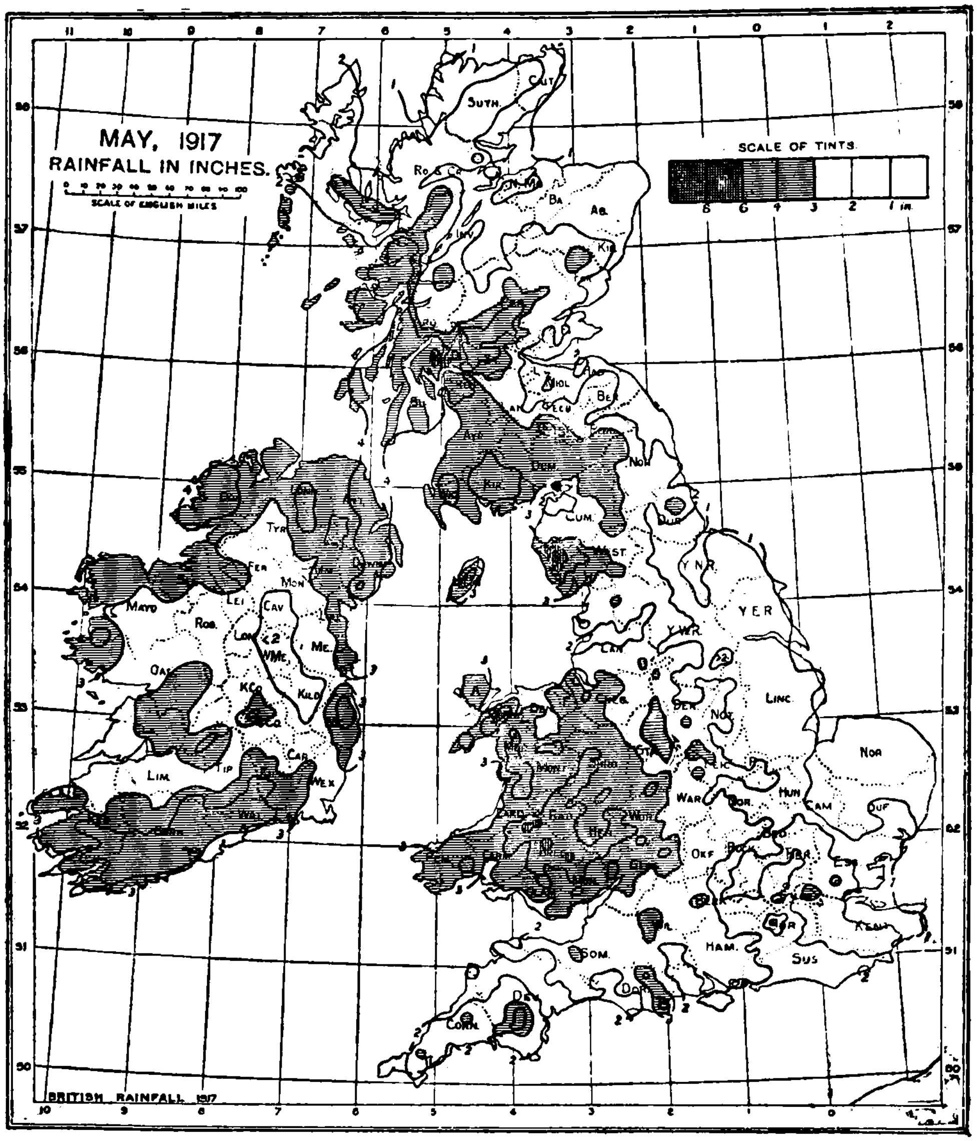

APRIL, 1917
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS.
8
6
4
3
2
1 in.
BRITISH RAINFALL 1917
PER
AB.
KIN.
MAYO
GAL
CLA
LIM.
KER.
COR.
TIP
WAT.
KILK.
WEX
CAR.
QCO.
KCO.
KILD.
WME.
ME.
LOU.
CAV.
MON.
ARM.
FER.
ROS.
SLI.
DOWN
AYR
DUM.
CUM.
Y.
NOR.
LAN.
CHES.
DER.
NOT.
STAF.
LEIC.
SHRO.
WAR
HER.
RAD.
BREC.
PEM.
GL.
OXF.
BUCK.
BED.
HERT.
ESS.
CAM.
HUN.
SUF.
NOR.
LINC.
BERK.
SUR.
KENT
SUS.
HAM.
WIL.
SOM.
DOR.
DEV.
COR.

April—Unsettled conditions, similar to those in March, persisted during the first three weeks of April, and the weather was characterized by abnormally low temperature and frequent snow storms. During the fourth week the conditions were anti-cyclonic. The 2-inch isohyetal again passed almost entirely round Scotland, and a considerable area in the east Midlands of Scotland had less than that amount. In England less than 2 inches fell in the centre and parts of the east and south-west, whilst in Ireland almost the whole of the southern half had less than 2 inches. As much as 4 inches fell in the interior of Wales and in parts of the north-west of Scotland and Ireland, but the areas with 4 inches in the Pennines and English Lakes were again very small.

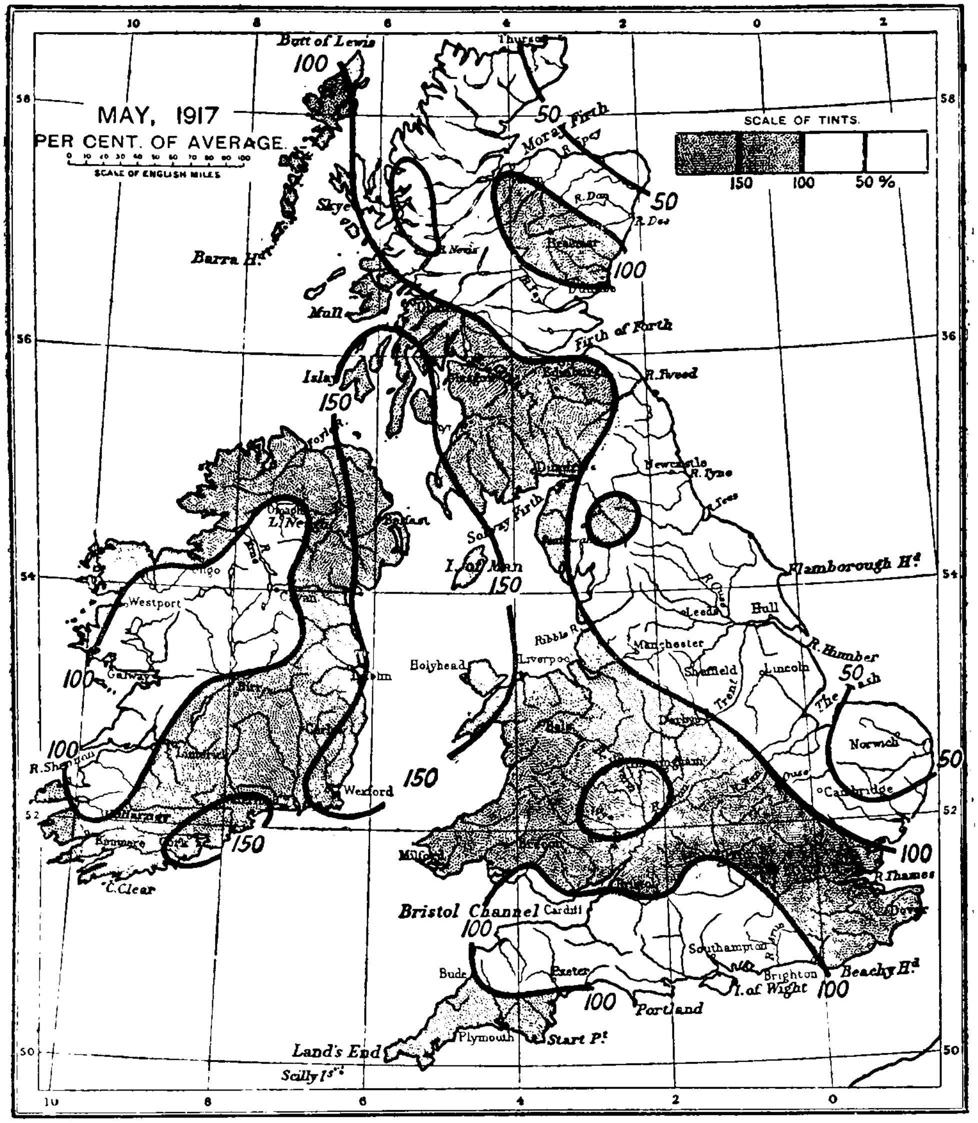

APRIL, 1917
PER CENT. OF AVERAGE.
SCALE OF ENGLISH MILES
SCALE OF TINTS
150
100
50 %
Butt of Lewis
Thurso
Skye
Barra Hd
Mull
Islay
Aberdeen
R. Dee
B. Nevis
Dundee
Edinburgh
R. Tweed
Glasgow
Ayr
Solway Firth
I. of Man
R. Tyne
Flamborough Hd
R. Humber
The Wash
Manchester
Liverpool
Sheffield
Holyhead
Birmingham
R. Severn
R. Wye
R. Ouse
Cambridge
Oxford
London
R. Thames
Dover
Beachy Hd
Brighton
I. of Wight
Southampton
Portland
Start Pt
Plymouth
Exeter
Bude
Land's End
Scilly Is
Bristol Channel
Bristol
Cardiff
Milford
Westport
Galway
Limerick
R. Shannon
Killarney
Kenmare
Cork
C. Clear
Carlow
Wexford
Dublin
Cavan
Birr
Sligo
150
100
50
10
8
6
4
2
0
58
56
54
52
50

Deficient rainfall occurred in the centre and south of Ireland, the centre and west of England and the centre of Scotland. Less than half the average fell along the south coast of Ireland and in small areas in south Devon and the east of Scotland. The districts of excessive fall occurred mainly in the north of Scotland, the north of Ireland and south of Scotland, and the east of England.

The general values for the countries were all close to the average. England had a deficiency of 3 per cent., Wales of 9 per cent., Scotland of 3 per cent., and Ireland of 14 per cent. The British Isles had a deficiency of 6 per cent.


MAY, 1917
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS
8 6 4 3 2 1 in.
BRITISH RAINFALL 1917

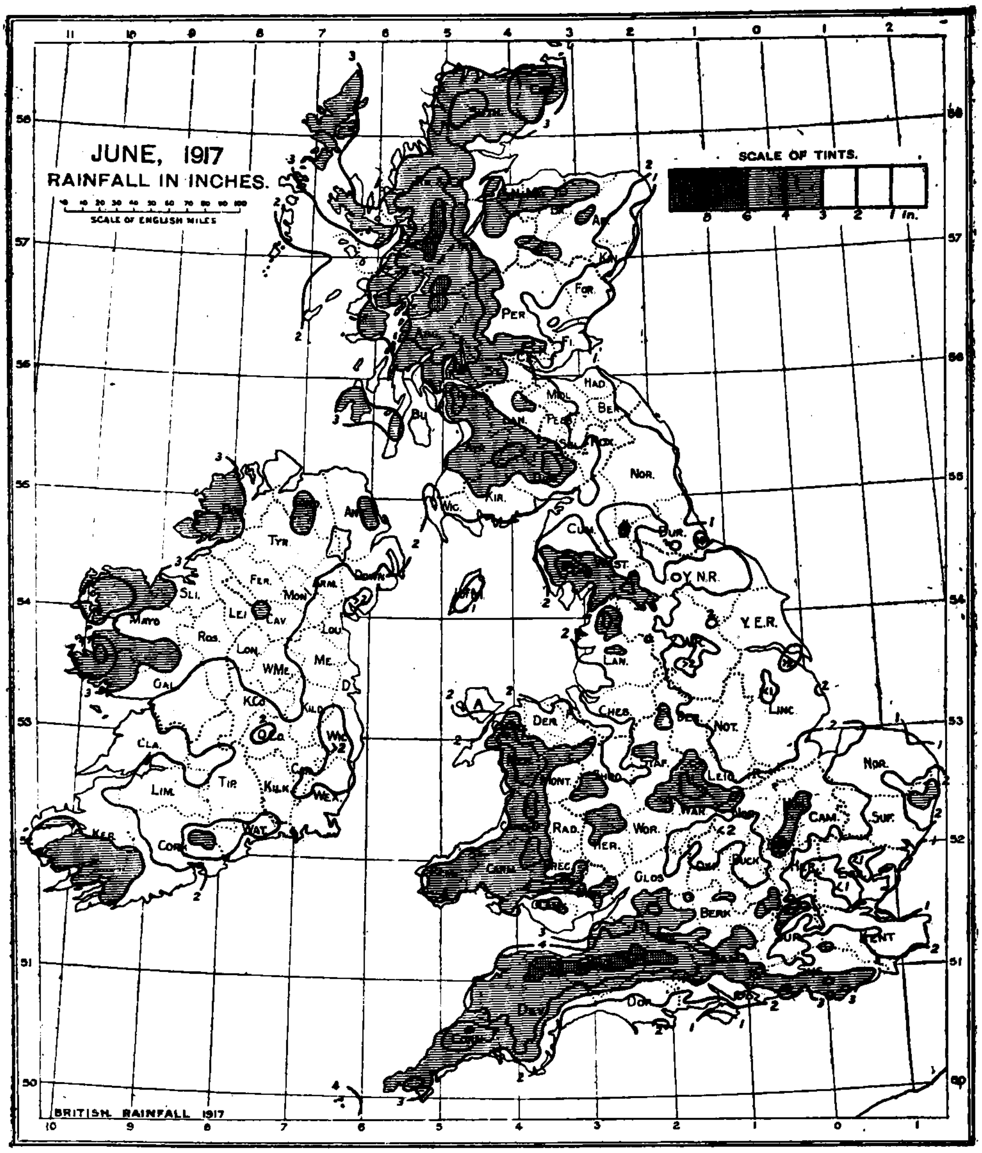
May—The pressure conditions were almost exactly the reverse of those in April, and the change signalized the termination of the abnormally protracted winter of 1916-17. Widespread drought which set in about the middle of April continued till well into May, the latter part of the month being more unsettled and thundery, but notable for unusual warmth. Less than 1 inch of rain fell on the east coast of England and less than 2 inches over practically the whole of the east of Great Britain, though only over a small area in the east Midlands of Ireland. In the west of England and Wales thunder rains brought about an irregular distribution with numerous small 4-inch patches, and very local occurrences of as much as 6 inches. In Scotland the 4-inch area was notably far south,


MAY, 1917
PER CENT. OF AVERAGE.
SCALE OF ENGLISH MILES
SCALE OF TINTS.
150
100
50 %
Butt of Lewis
Skye
Barra Hd.
Mull
Islay
Moray Firth
R. Dee
Firth of Forth
R. Tweed
Newcastle
R. Tyne
I. of Man
Flamborough Hd.
Leeds
Hull
Liverpool
Manchester
Sheffield
Lincoln
R. Humber
Norwich
Cambridge
R. Thames
Holyhead
Westport
Galway
R. Shannon
Wexford
C. Clear
Bristol Channel
Cardiff
Bude
Exeter
Plymouth
Start Pt.
Land's End
Scilly Is.
Southampton
Brighton
I. of Wight
Portland
Beachy Hd.
100
50
150

the north-west Highlands being dry, whilst in Ireland considerable areas with 4 inches lay round the coasts. As much as 6 inches does not appear to have fallen anywhere in Scotland or Ireland.

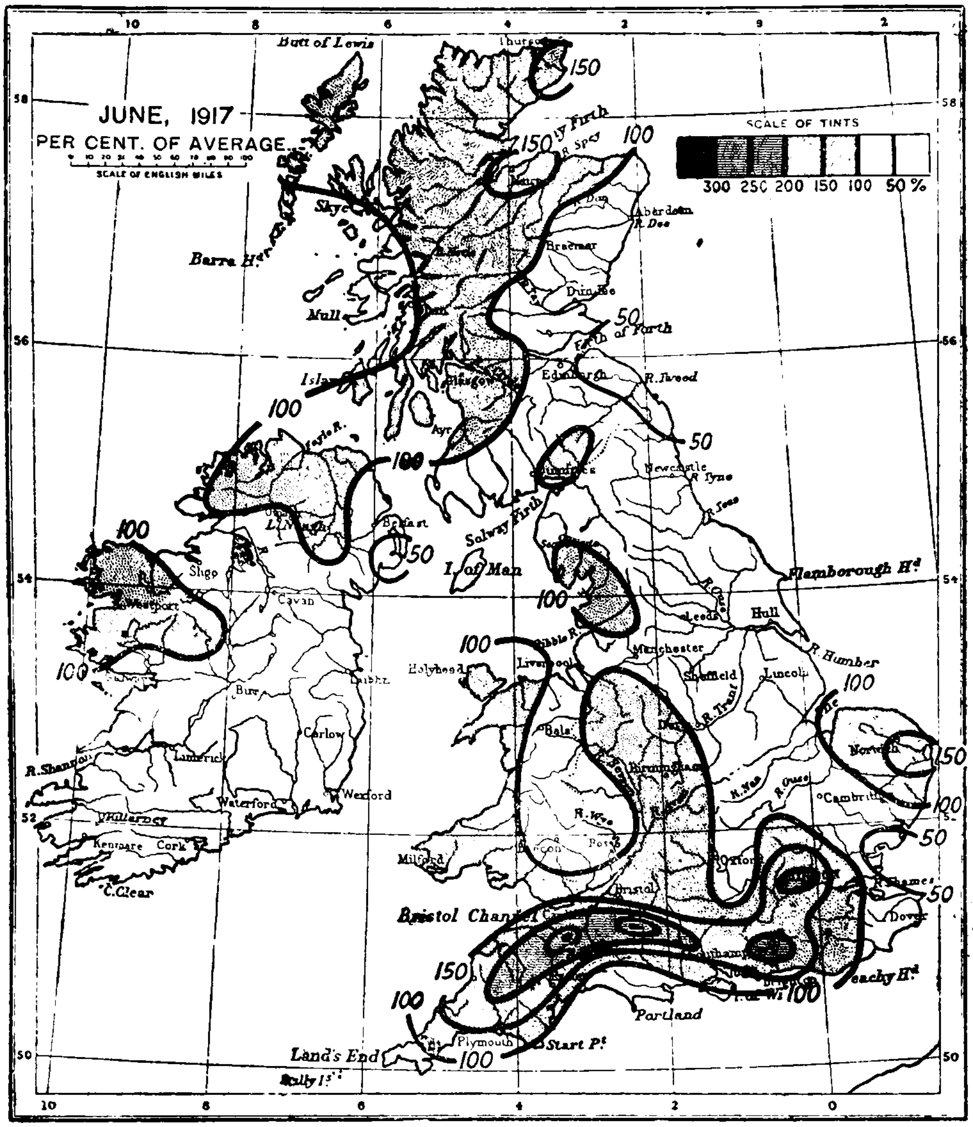
Less than the average fell in the east and south of Great Britain, and the west centre of Ireland. The area of greatest excess, more than 50 per cent., extended from the Firth of Lorne to St. George's Channel.

The general rainfall was 9 per cent below the average in England, and 3 per cent. in Scotland, but 28 per cent. above the average in Wales and 23 per cent. above in Ireland. For the British Isles, as a whole, the fall was 5 per cent. in excess.



JUNE, 1917
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS.
6
4
3
2
1 in.
BRITISH RAINFALL 1917

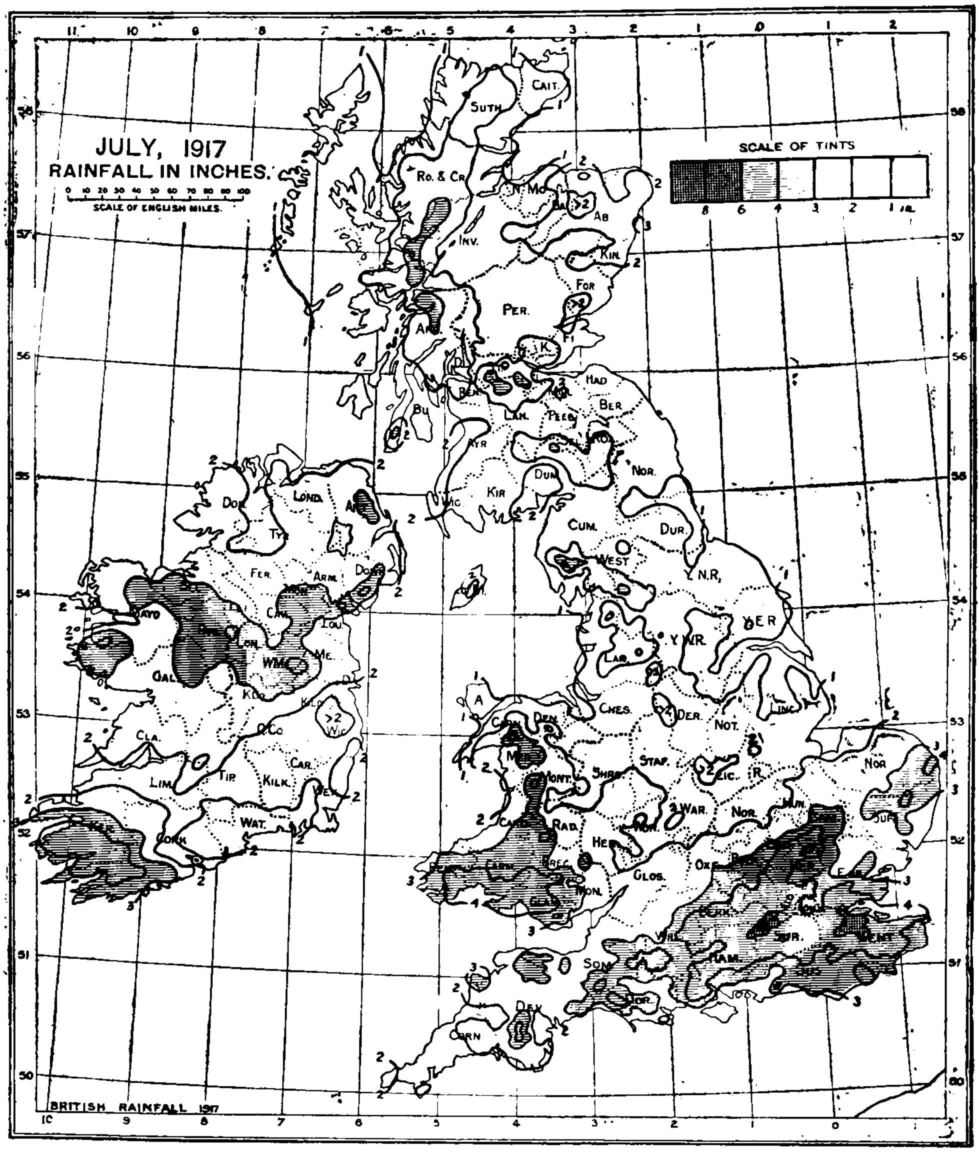
June was sunny and rather warm, but the weather was unstable and frequent thunderstorms occurred. The rainfall of the month was over considerable areas deficient, but in the south of England two falls of unprecedented magnitude entirely dominate the maps. Less than 1 inch fell on part of the east coast of Great Britain and less than 3 inches in the east generally, and almost everywhere in Ireland. The west of Scotland, Wales, the northern Pennines and the west of Connaught, exhibited patches of more than 4 inches rising to 6 inches in places, whilst more than 4 inches fell in a long strip extending from Cornwall to Hampshire and reappearing in isolated patches in Sussex, London and Bedfordshire. More than 6 inches fell between Exmoor and Salisbury


JUNE, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
300 250 200 150 100 50 %
Butt of Lewis
Skye
Barra Hd
Mull
Islay
Aberdeen
R. Dee
Braemar
Dundee
Firth of Forth
Edinburgh
R. Tweed
Glasgow
Ayr
Newcastle
R. Tyne
Belfast
Solway Firth
I. of Man
Sligo
Cavan
Dublin
Carlow
Wexford
Waterford
Limerick
R. Shannon
Cork
Kenmare
C. Clear
Leeds
Hull
R. Humber
Flamborough Hd
Manchester
Liverpool
Sheffield
Lincoln
Holyhead
Bala
Birmingham
Norwich
Cambridge
R. Wye
Milford
Oxford
Bristol
Bristol Channel
R. Thames
Dover
Beachy Hd
Portland
Plymouth
Start Pt
Land's End
Scilly Is
150
100
50
10
8
6
4
2
0
58
56
54
52
50

Plain and in the north of London, and more than 8 inches in three patches in Somersetshire.

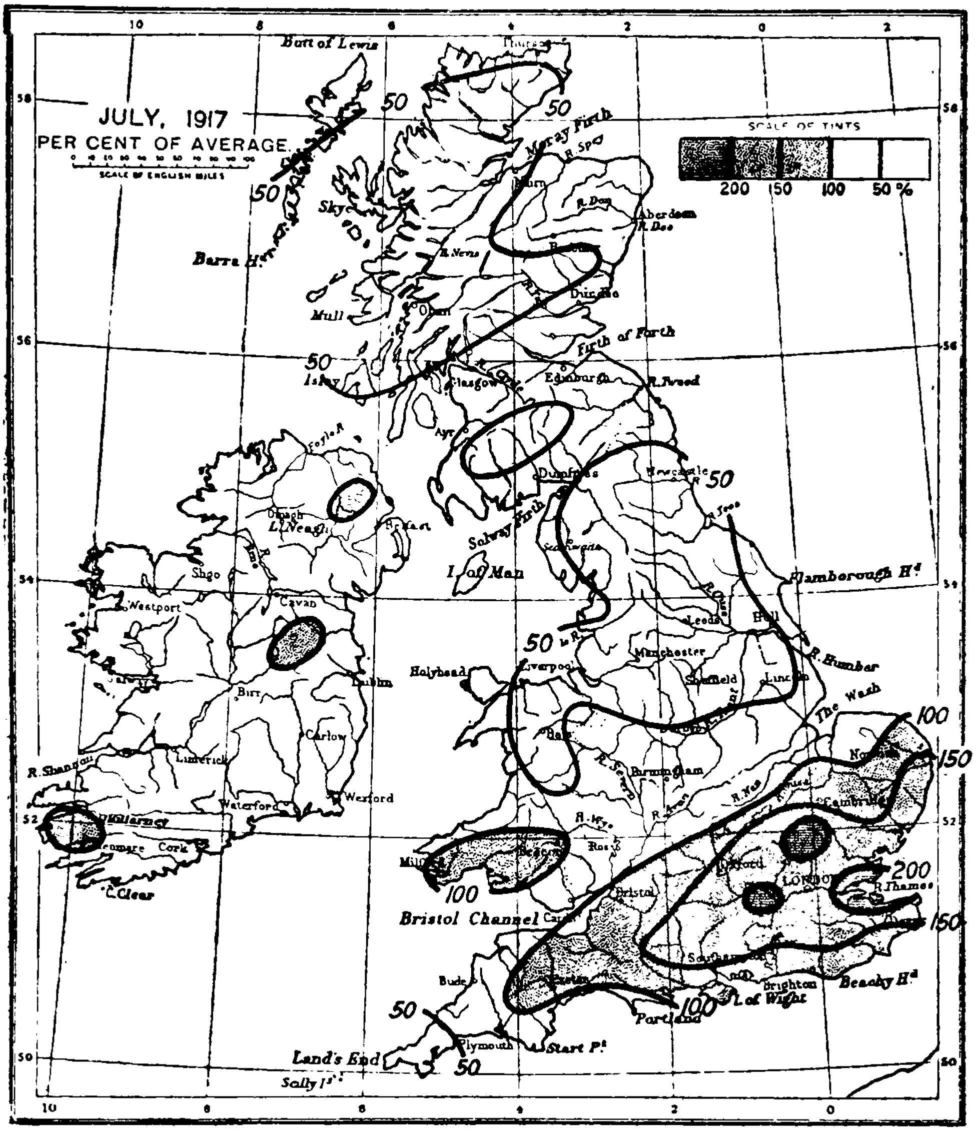
The rainfall exceeded the average in the north-west of Scotland and Ireland and in the south of England generally. It rose to 100 per cent. above the average in three strips the largest extending from Launceston to Winchester. On the Quantock Hills and round Bruton the fall exceeded the average by at least 200 per cent. Two small patches on the east coast had less than half the average fall.

The general rainfall for the British Isles was exactly the average; Wales also had exactly the average, whilst Ireland had a defect of 13 per cent., Scotland an excess of 2 per cent., and England of 7 per cent.


JULY, 1917
RAINFALL IN INCHES.
0 10 20 30 40 50 60 70 80 90 100
SCALE OF ENGLISH MILES.
SCALE OF TINTS
8
6
4
3
2
1 in.
BRITISH RAINFALL 1917
CAIT.
SUTH.
Ro. & CR.
N. Mo.
>2
AB.
INV.
KIN.
FOR.
PER.
>2
FI.
K.
AR.
HAD.
BER.
LAN.
PEEB.
BU.
AYR.
ROX.
NOR.
DUM.
KIR.
WIG.
CUM.
DUR.
WEST.
N.R.
Y.E.R.
Y.W.R.
LAN.
LINC.
CHES.
DER.
NOT.
NOR.
STAF.
SHR.
LEIC.
R.
HUN.
SUF.
WAR.
NOR.
MONT.
RAD.
HE.
CAR.
CARM.
BREC.
GLOS.
OX.
HER.
E.
MON.
GLAM.
BERK.
SUR.
KENT
WILT.
HAM.
SUS.
SOM.
DOR.
DEV.
CORN.
A.
CARN.
DEN.
M.
LOND.
ANT.
DON.
TY.
DOWN
FER.
ARM.
MON.
CAV.
LOU.
MAYO
ROS.
LON.
WM.
ME.
GAL.
KD.
DUB.
>2
WIC.
CLA.
K.Co.
Q.Co.
CAR.
LIM.
TIP.
KILK.
WEX.
WAT.
KER.
CORK
11
10
9
8
7
6
5
4
3
2
1
0
1
2
58
57
56
55
54
53
52
51
50

July—The conditions were mainly anti-cyclonic with local thunderstorms, which rendered the distribution of total rainfall irregular. During the closing days of the month unusually heavy and continuous rains occurred in the south-east of England.

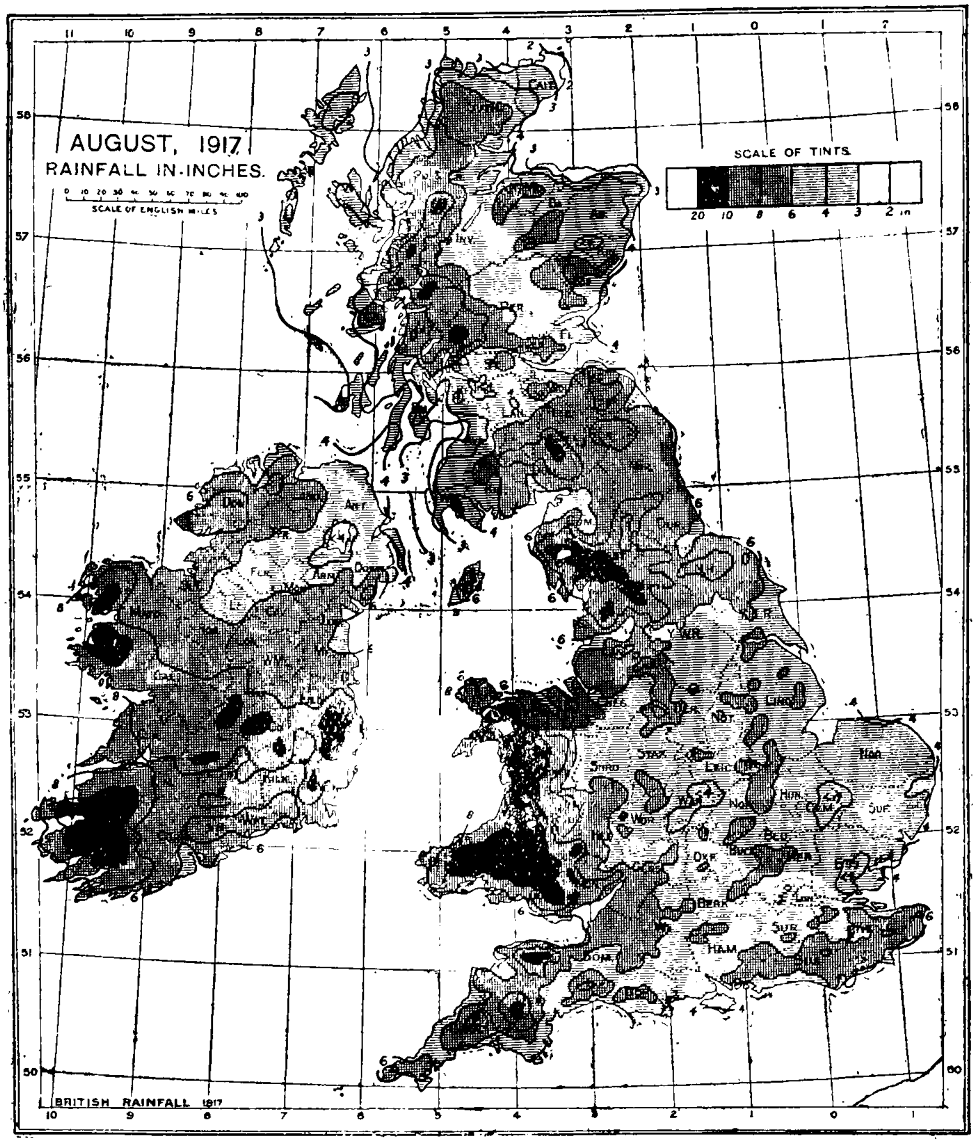
Less than 1 inch of rain fell during the month in parts of the north of England and Wales, and also on the north-west and north-east coasts of Scotland. Except in Cornwall the whole of the south of England and Wales had more than 2 inches, whilst an interrupted belt with more than 4 inches stretched from Dorset into Norfolk and Kent, with 6 inches as far east as Chatham. More than 3 inches was again very local in the north, but was rather more extensive in Ireland, where it occurred in a strip of


JULY, 1917
PER CENT OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
200
150
100
50 %
10
8
6
4
2
0
2
58
56
54
52
50
Butt of Lewis
Skye
Barra Hd
Mull
Islay
Moray Firth
R. Spey
R. Don
Aberdeen
R. Dee
R. Nevis
Oban
Dundee
Firth of Forth
Glasgow
Edinburgh
R. Tweed
Ayr
Dumfries
Newcastle
Solway Firth
I. of Man
Flamborough Hd
Leeds
Hull
R. Humber
Manchester
Sheffield
Lincoln
The Wash
Liverpool
Holyhead
Birmingham
R. Severn
R. Wye
Cambridge
London
R. Thames
Bristol Channel
Bristol
Bude
Plymouth
Start Pt
Land's End
Scilly Is
Southampton
Portland
I. of Wight
Brighton
Beachy Hd
Derry
Omagh
L. Neagh
Belfast
Sligo
Westport
Cavan
Dublin
Birr
Carlow
Limerick
R. Shannon
Waterford
Wexford
Killarney
Cork
C. Clear
50
100
150
200

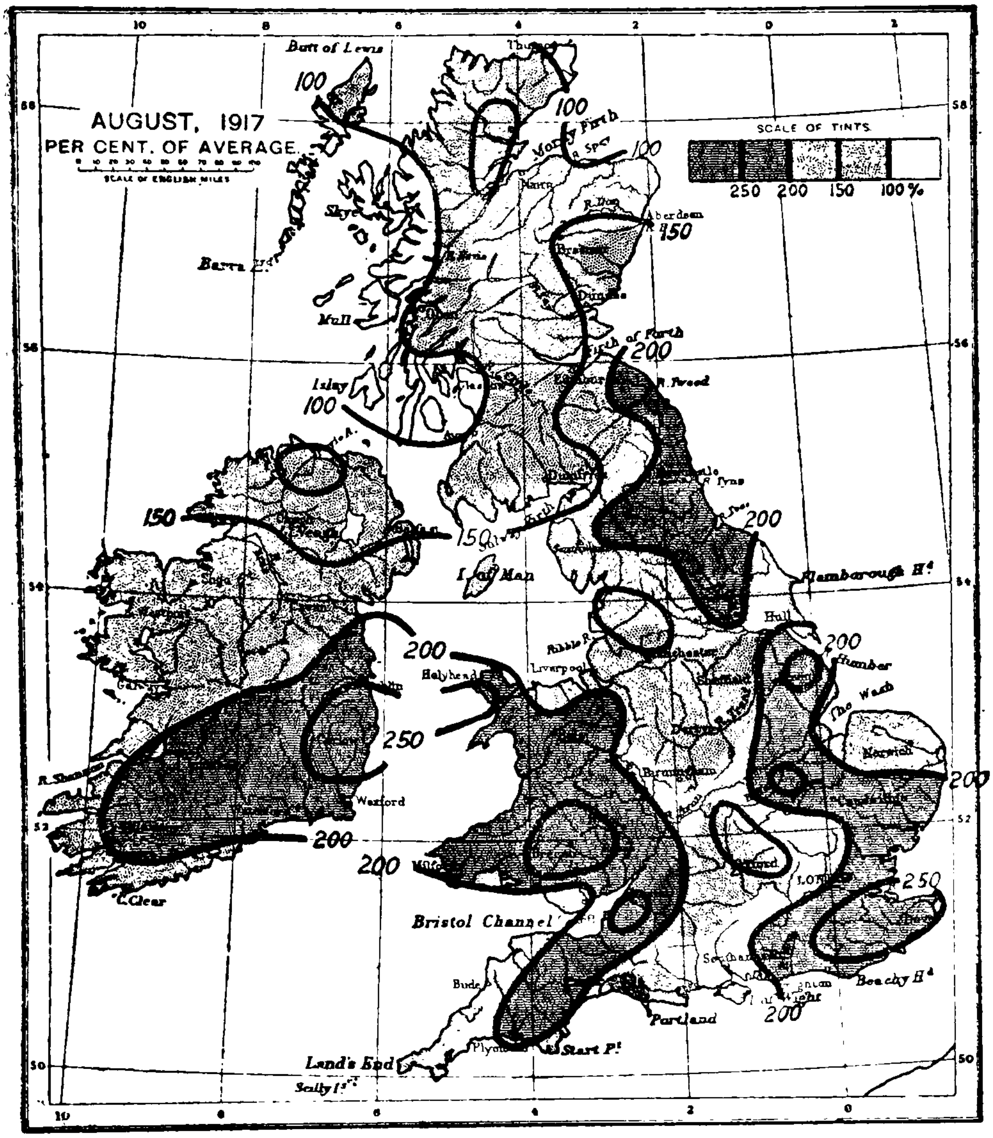
country stretching from Mayo to Down. No falls of 6 inches were reported from either Scotland or Ireland.

Apart from small local patches in Ireland falls of more than the average were confined to the south of England and Wales. In the south-east of England the fall exceeded the average by more than 50 per cent., and in places by more than 100 per cent. Most of the north of England and the centre and west of Scotland had less than half the average fall.

In spite of the heavy falls in the south the general rainfall was in defect in all the great divisions of the kingdom. In England the deficiency was 17 per cent., in Ireland 20 per cent., in Wales 26 per cent., in Scotland 47 per cent., and for the British Isles as a whole, 27 per cent.


AUGUST, 1917
RAINFALL IN-INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS
20 10 8 6 4 3 2 in
BRITISH RAINFALL 1917

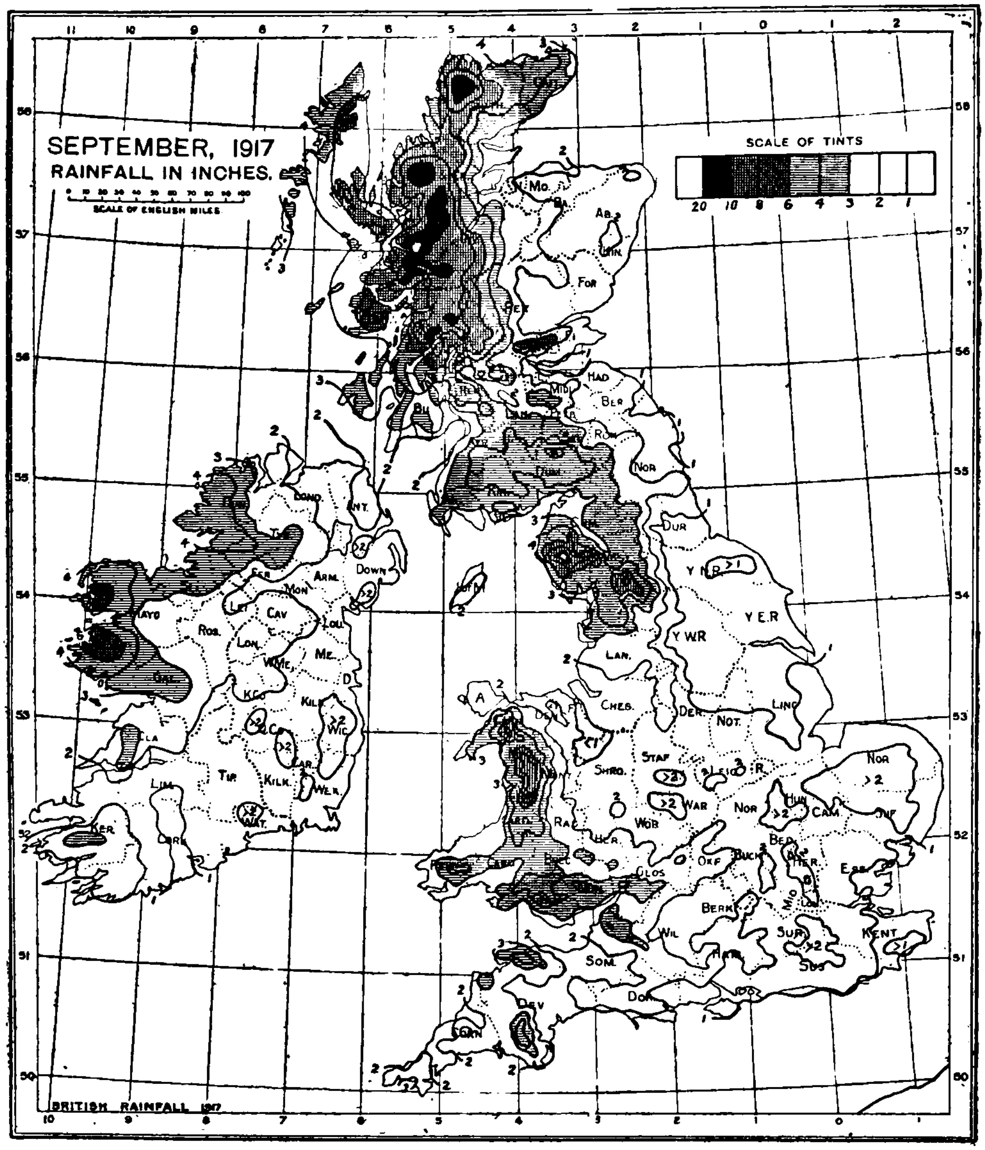
August—With high barometer in the extreme north and also in the south-west the British Isles lay during this month in a tract of low pressure, along which passed an abnormal number of depressions bringing extremely inclement and rainy conditions, which persisted throughout. The total rainfall was less than 4 inches only on the coast of East Anglia and portions of the east and west coasts of Scotland, and more than 6 inches fell extremely widely, the 6-inch areas being broken in the east and continuous in the west generally. In England more than 8 inches was recorded in places in Kent, whilst all the mountainous districts except the southern Pennines had large areas with over 10 inches. Scotland was less noteworthy in this respect, but the centre and south of Ireland had


AUGUST, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
250
200
150
100%
Butt of Lewis
Skye
Barra
Mull
Islay
Aberdeen
Firth of Forth
R. Tweed
Tyne
Flamborough Hd
Hull
Humber
The Wash
Norwich
Liverpool
Holyhead
Wexford
Clear
Bristol Channel
Bude
Land's End
Scilly Is
Start Pt
Portland
Beachy Hd
I. of Man
Birmingham
London
100
150
200
250

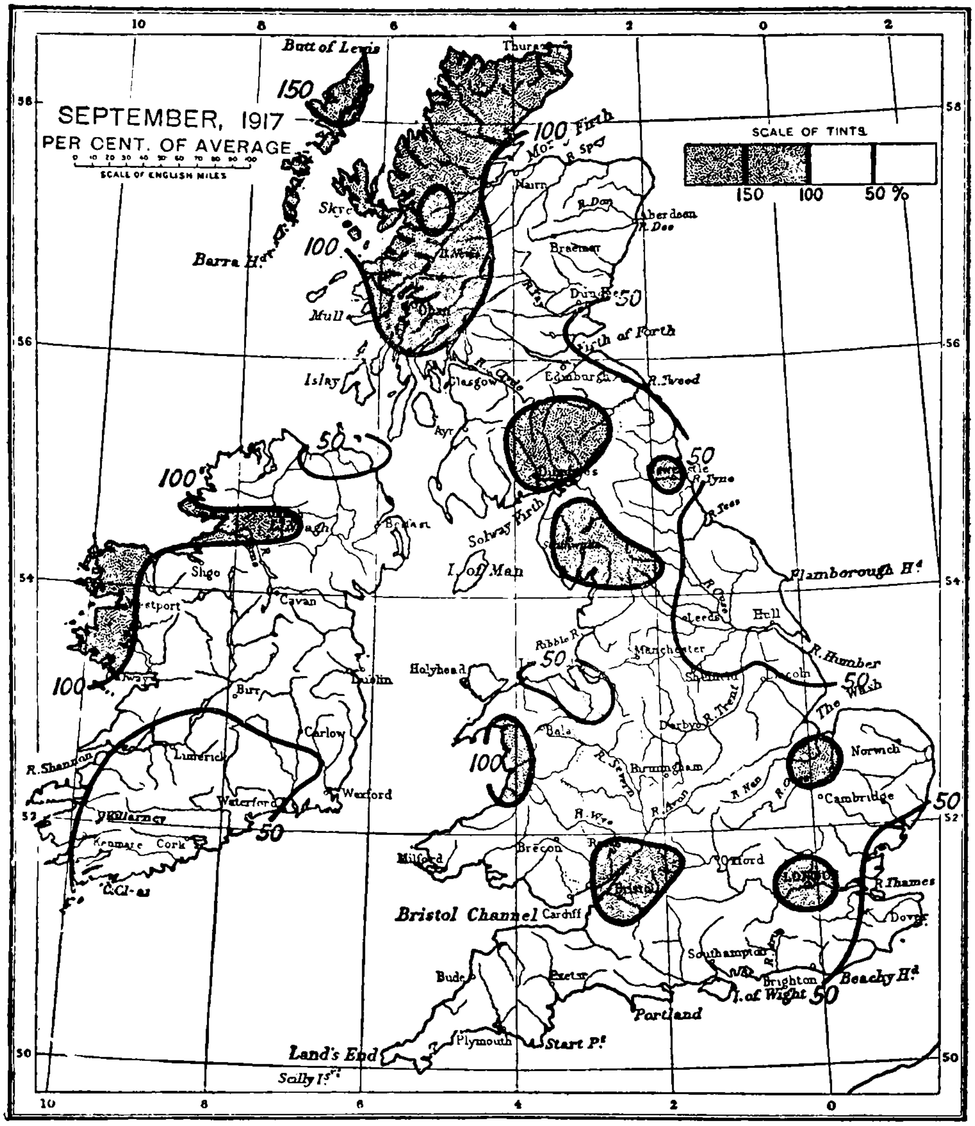
large areas with more than 10 inches. In Snowdon and the English Lakes many stations had more than 20 inches.

The total fall was above the average praclically everywhere except in the west of Scotland and the excess was more than 50 per cent. practically everywhere outside Scotland. More than twice the average fell in the south of Ireland and in the south-west and east of England and Wales, whilst the excess was above 150 per cent. in numerous patches scattered over the south of the United Kingdom.

The excess of rainfall over the average was greatest, 128 per cent. in Wales; in England it was 94 per cent., in Ireland 81 per cent., and in Scotland 23 per cent., whilst for the British Isles it was 73 per cent.


SEPTEMBER, 1917
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS
20
10
8
6
4
3
2
1
BRITISH RAINFALL 1917

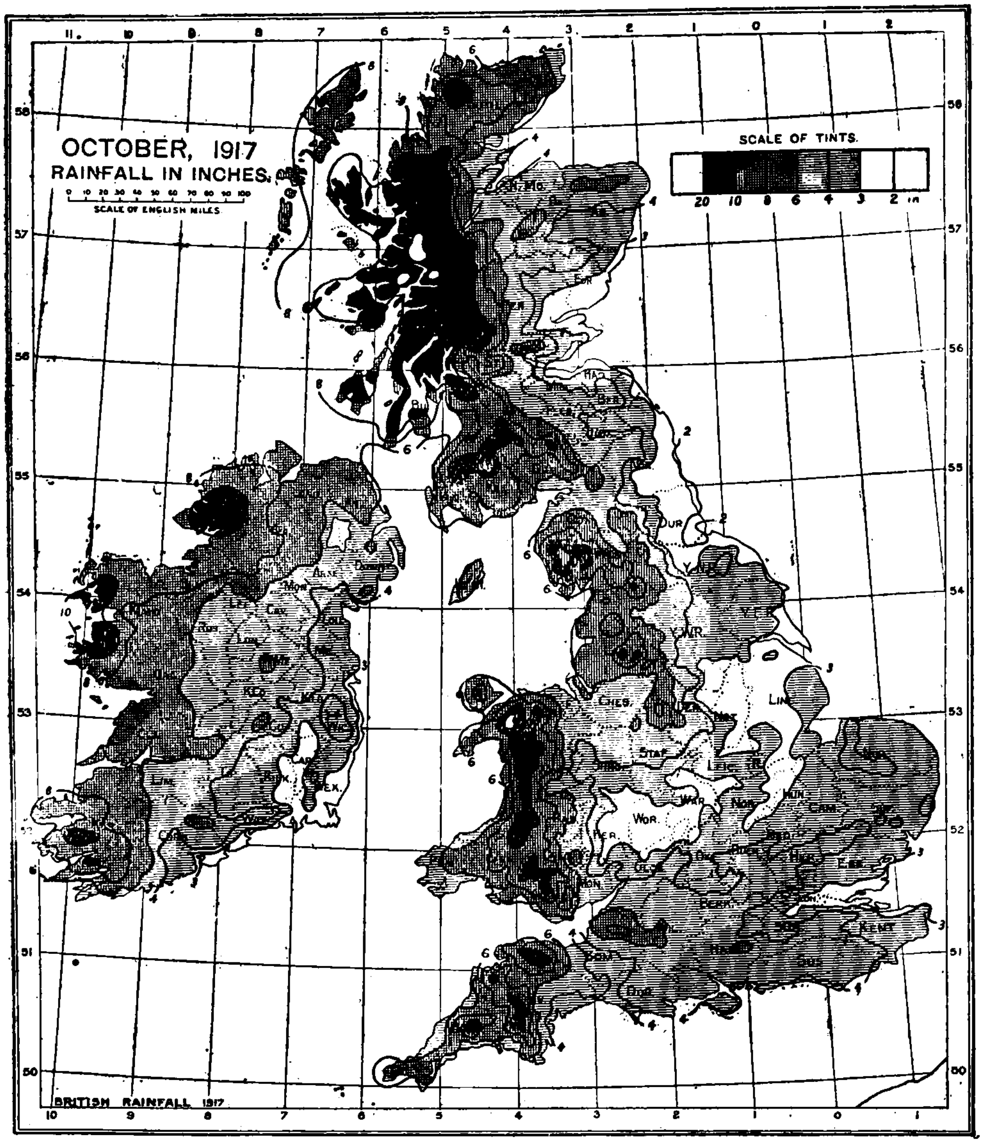
September—The Altantic anti-cyclone extended north-westward in September and the low-pressure systems assumed more northerly tracks, so that the western Highlands, which had largely escaped heavy rainfall in the earlier months of the year, now experienced more rainy conditions, whilst little rain fell in the east and south. Considerable areas in the east of England had less than 1 inch of rain and more than 2 inches occurred only very locally in the east of any of the greater divisions of the kingdom. More than 3 inches fell generally in Wales, in the north-west of England and the western half of Scotland, as well as the west of Connaught and Ulster. A large area in the western Highlands had more than 10 inches, and in the centre of this, as well as in the English Lakes


SEPTEMBER, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
150
100
50 %
Butt of Lewis
Thurso
Skye
Barra Hd.
Mull
Islay
Nairn
R. Don
Aberdeen
R. Dee
Braemar
Dundee
Firth of Forth
Edinburgh
R. Tweed
Glasgow
R. Clyde
Ayr
Solway Firth
I. of Man
R. Tyne
R. Tees
Flamborough Hd.
Hull
Leeds
Manchester
Sheffield
Lincoln
R. Humber
The Wash
Norwich
Cambridge
Holyhead
Bala
Birmingham
R. Severn
R. Avon
Brecon
Milford
Bristol Channel
Cardiff
Bristol
Oxford
London
R. Thames
Dover
Beachy Hd.
Brighton
I. of Wight
Southampton
Portland
Exeter
Bude
Plymouth
Start Pt.
Land's End
Scilly Is.
Sligo
Westport
Galway
Cavan
Belfast
Dublin
Birr
Carlow
Limerick
R. Shannon
Waterford
Wexford
Killarney
Kenmare
Cork
C. Clear
150
100
50
10
8
6
4
2
0
58
56
54
52
50

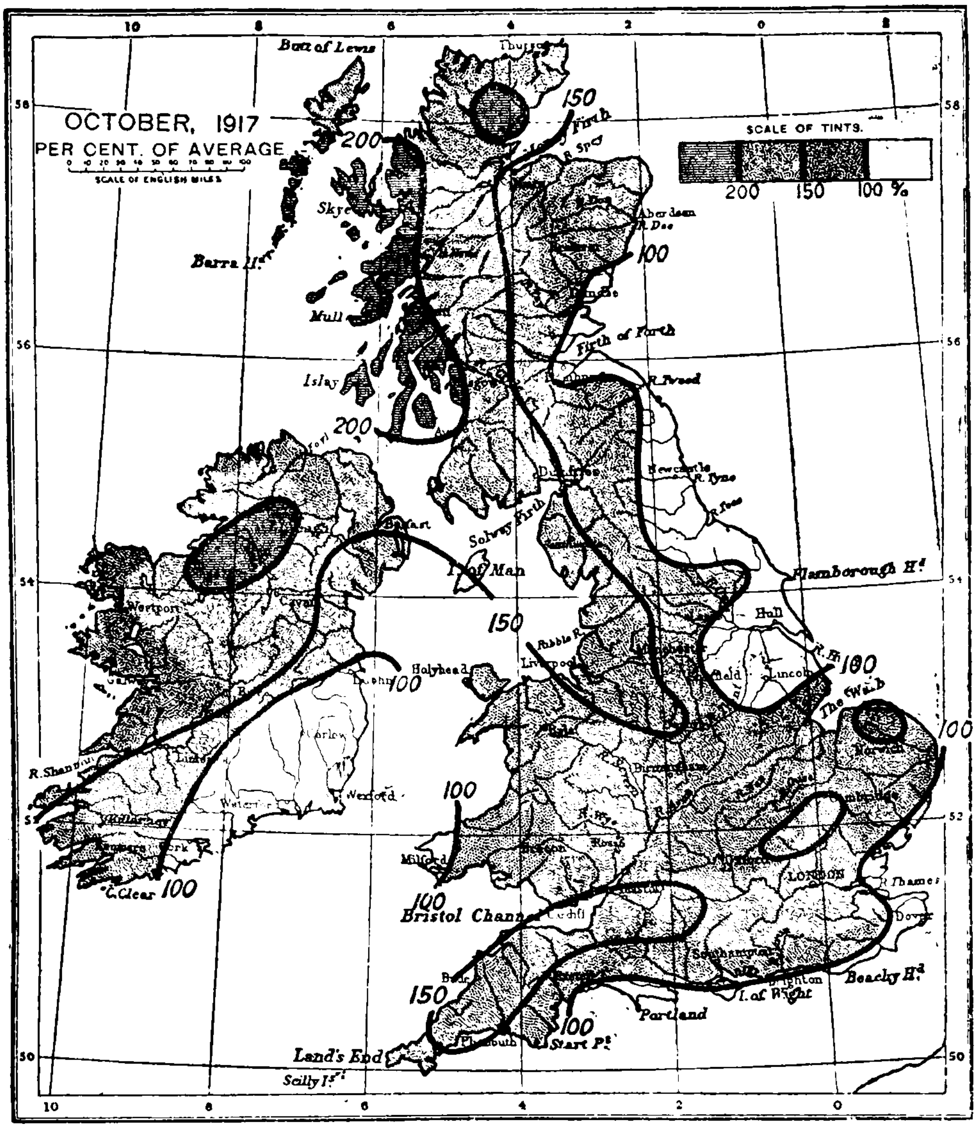
more than 20 inches fell.

Less than half the average rain fell on the east coast of Great Britain, between Dundee and the Wash, and between Harwich and Beachy Head. A similar deficiency occurred in the south of Ireland. More than the average fell at a number of spots in England, over a part of the north-west coast of Ireland, and over the north-west of Scotland generally.

Scotland had 3 per cent. more than the average, but in England there was a deficiency of 15 per cent., in Wales of 22 per cent., and in Ireland of 27 per cent., whilst for the British Isles the fall was 13 per cent. below the average.


OCTOBER, 1917
RAINFALL IN INCHES.
0 10 20 30 40 50 60 70 80 90 100
SCALE OF ENGLISH MILES
SCALE OF TINTS.
20 10 8 6 4 3 2 in
BRITISH RAINFALL 1917

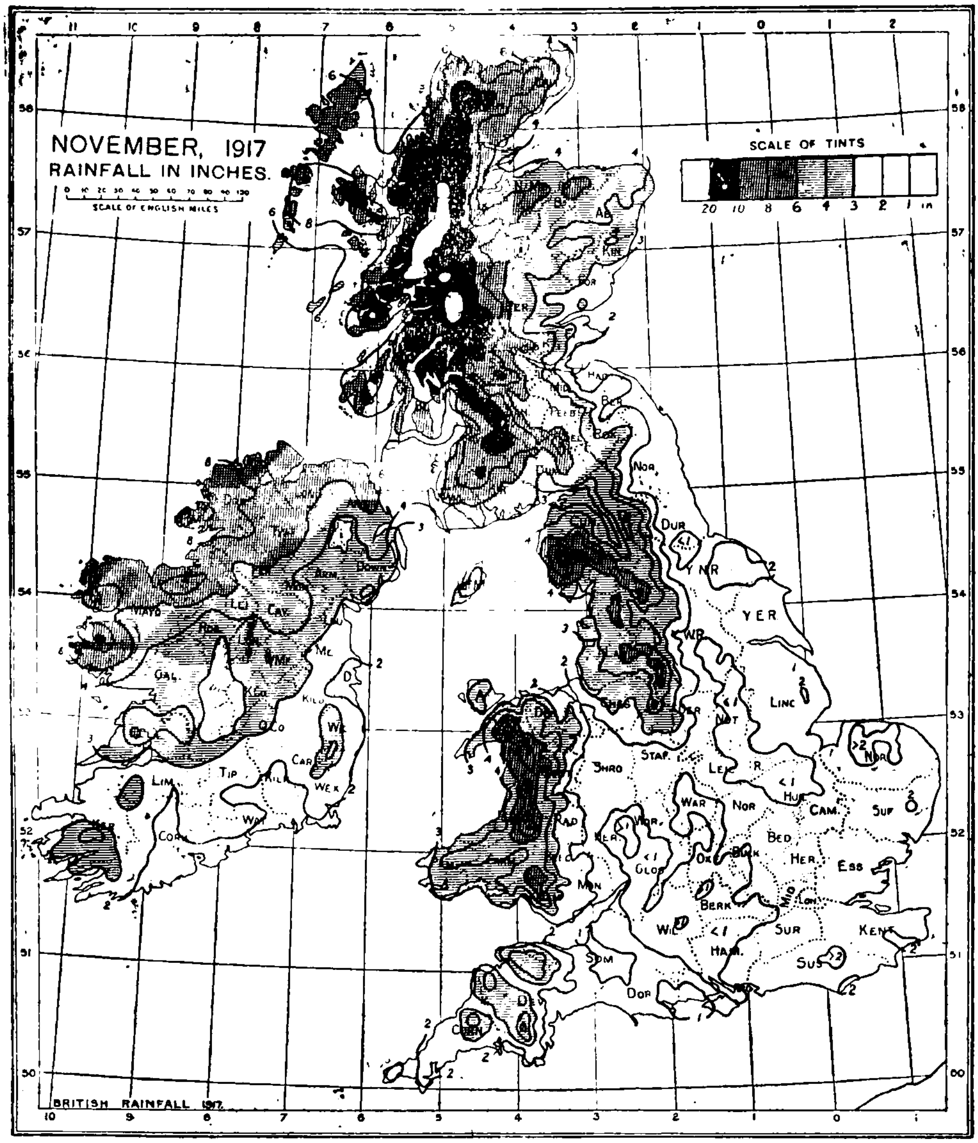
October—The conditions which obtained in August re-asserted themselves in October and numerous depressions crossed the British Isles, following, however, as a general rule, rather northerly tracks. The eastern coasts were again decidedly the least rainy districts, but areas with less than 3 inches were not extensive. More than 4 inches fell over the west and most of the south of England, the whole of Wales and all except the extreme east of Scotland and south-east of Ireland. The area with more than 6 inches embraced considerably more than half Scotland and Ireland and all the mountainous areas in England and Wales, whilst more than 10 inches occurred in large patches in all these districts and over the whole of the western Highlands. More than 20 inches was reported from


OCTOBER, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS.
200
150
100 %
Butt of Lewis
Skye
Barra Hd
Mull
Islay
Firth of Forth
Aberdeen
R. Dee
R. Tweed
Newcastle
R. Tyne
Solway Firth
I. of Man
Flamborough Hd
Hull
Lincoln
The Wash
Liverpool
Holyhead
Belfast
Westport
Cavan
R. Shannon
Wexford
C. Clear
Milford
Bristol Channel
London
Thames
Dover
Beachy Hd
Southampton
Brighton
I. of Wight
Portland
Start Pt
Plymouth
Land's End
Scilly Is
200
150
100
10
8
6
4
2
0
58
56
54
52
50

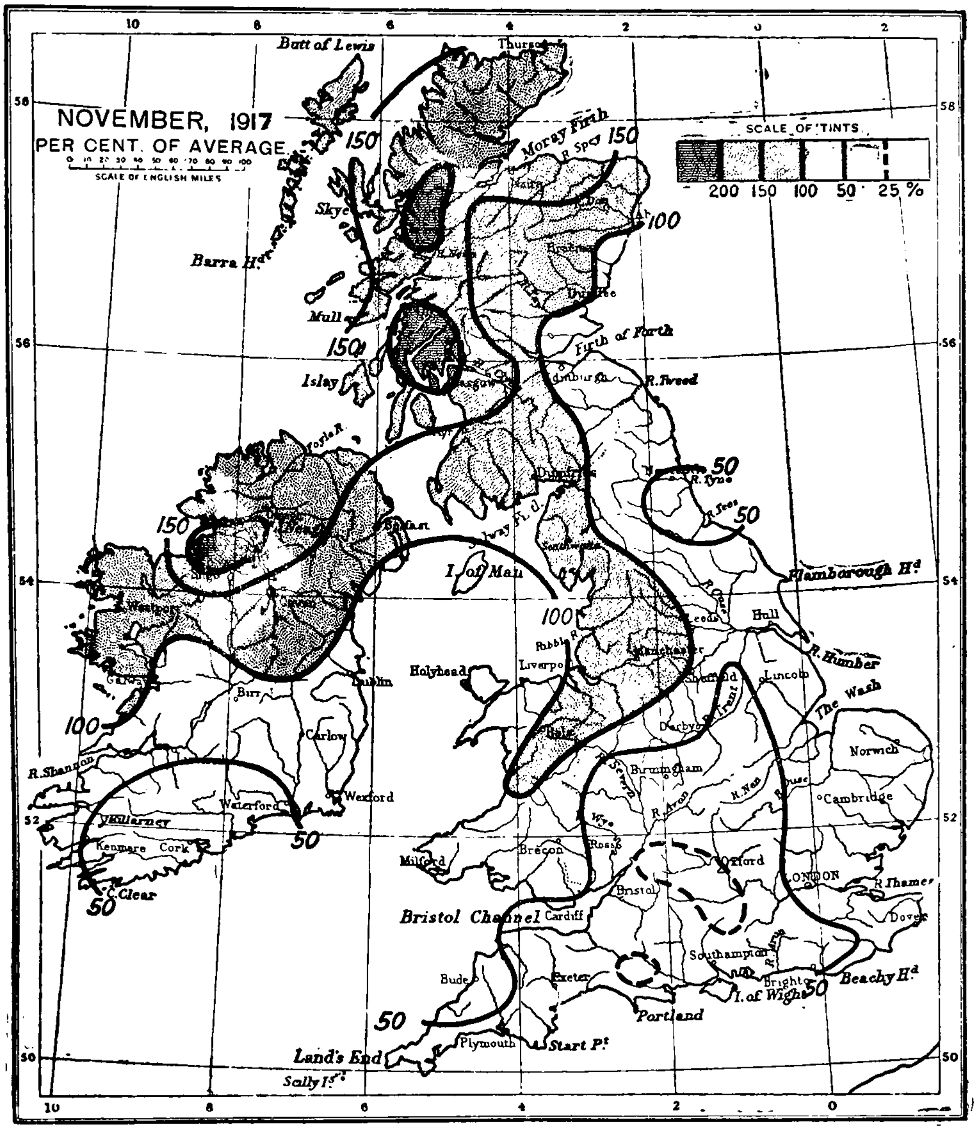
Snowdon, the Lake District, and parts of Argyll and Inverness-shire.

Less than the average rain fell between Kincardineshire and Lincolnshire, and along the south-east coasts of England and Ireland, but towards the west and north-west the fall rapidly increased and the rainfall was more than twice the average in part of Sutherlandshire, the west of Scotland generally and part of the north-west of Ireland.

The general fall was in excess of the average in all the great divisions of the British Isles, the excess reaching, 30 per cent. in England, 33 per cent. in Wales, 50 per cent. in Ireland, 68 per cent. in Scotland, and 46 per cent. for the British Isles as a whole.


NOVEMBER, 1917
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS
20 10 8 6 4 3 2 1 IN
BRITISH RAINFALL 1917.
YER
LINC
SHRO
STAF.
WAR
NOR
CAM.
SUF
BED
HER.
ESS
GLO
OX
BERK
SUR
KENT
WIL
HAM.
SUS
DOR
SOM
DEV
CORN
MON
DUR
Y NR
NOR.
ROX
PEEB
MID
HAD
BER
AB
KIN
FOR
PER
MAYO
ROS
GAL
LIM
COR
KER
TIP
KILK
WAT
WEX
CAR
WI
QCO
KILD
KGO
WME
MEA
LOU
CAV
MON
DOWN
ANT
LEI
D

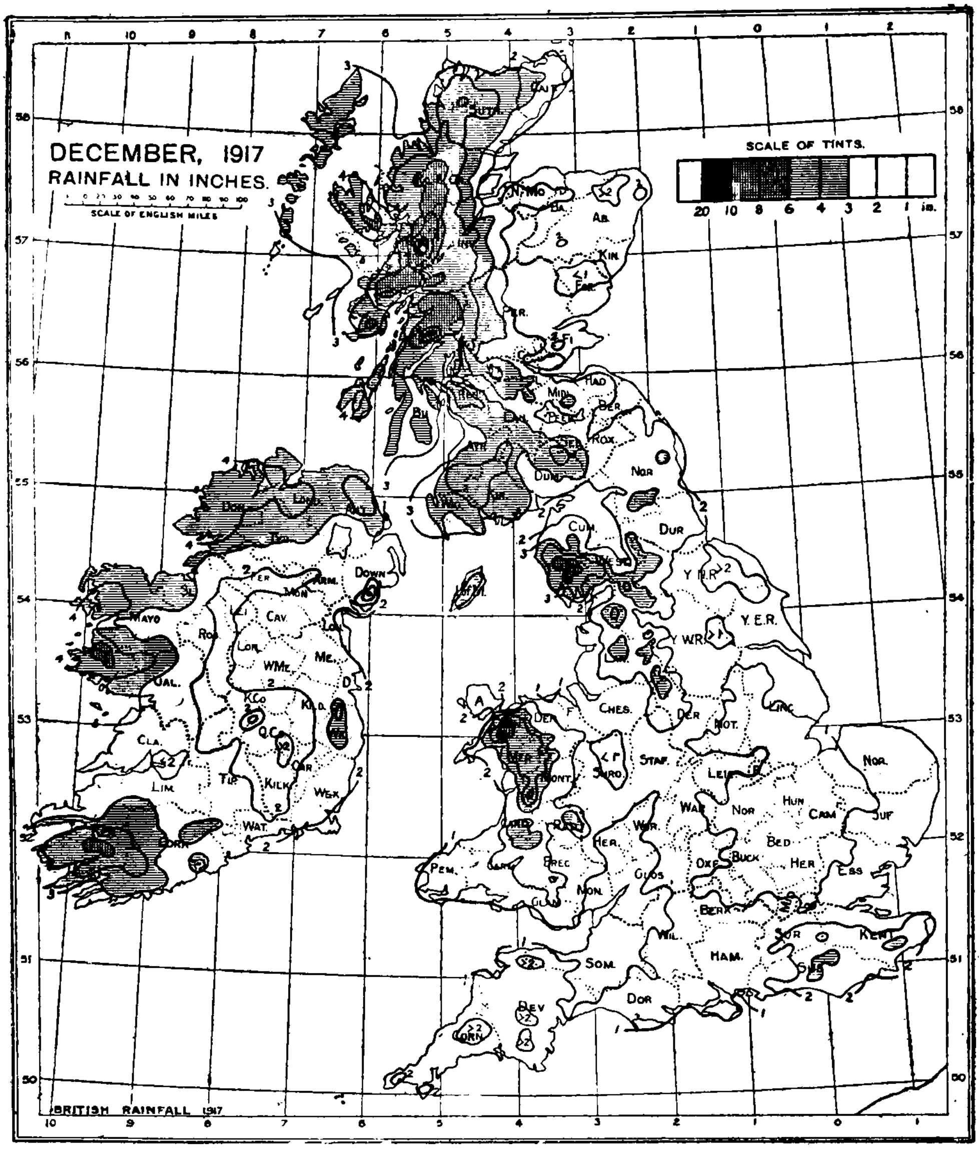
November was a month of persistent westerly winds and frequent depressions, which again followed rather northerly tracks. The distribution of rainfall resembled that in October. Rains of a very exceptional nature, even for that district, occurred in the west of Scotland during the last week. The east of Great Britain northwards to the Firth of Forth and almost the whole of England, except the Pennines and the Devon-Cornwall peninsula, had less than 2 inches of rain, with less than 1 inch in much of the Midlands. Nearly the whole of Scotland had more than 4 inches, and this amount fell also over the Pennines, most of Wales, Exmoor and Dartmoor. In Ireland more than 4 inches occurred principally in the north. The areas with more than 10 inches were small in England,


NOVEMBER, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS
200 150 100 50 25 %
150
100
50
Butt of Lewis
Thurso
Moray Firth
R. Spey
Skye
Barra Hd.
Mull
Islay
Firth of Forth
R. Tweed
R. Tyne
R. Tees
Flamborough Hd.
Hull
R. Humber
Lincoln
The Wash
Norwich
Cambridge
London
R. Thames
Dover
Beachy Hd.
I. of Wight
Portland
Southampton
Bristol
Bristol Channel
Cardiff
Brecon
Milford
Bude
Exeter
Plymouth
Start Pt.
Land's End
Scilly Is.
I. of Man
Liverpool
Holyhead
Leeds
Birmingham
Derby
Sheffield
Dublin
Carlow
Wexford
Waterford
Cork
Kenmare
Killarney
C. Clear
R. Shannon
Galway
Birr
Westport

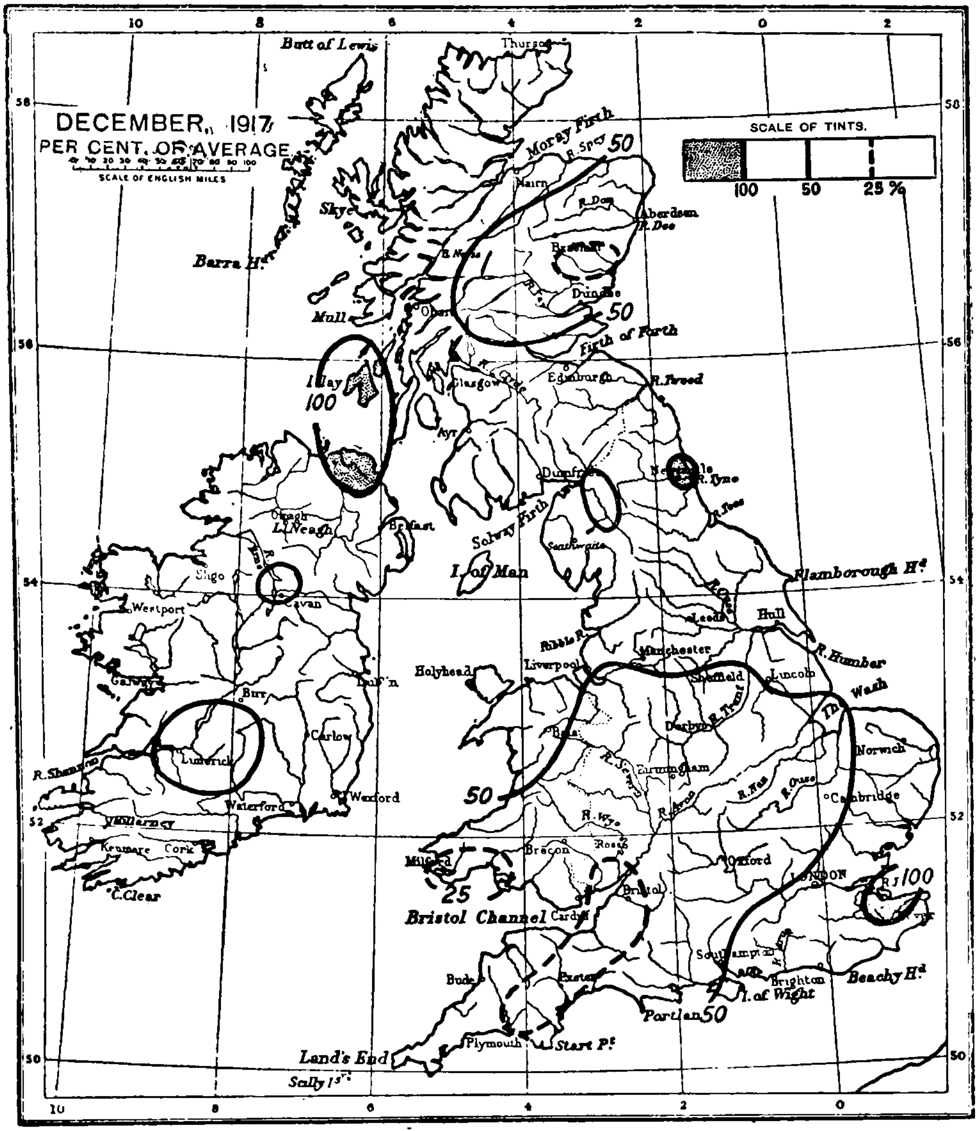
Wales and Ireland, but again very large in Scotland. More than 30 inches fell in Glenquoich.

The south of England and Ireland had less than half the average, but the north-west of the British Isles had everywhere more than the average, and parts of Ireland and Scotland, closely corresponding to those similarly affected in October, had more than twice the average fall.

England, as a whole, had a deficiency of 30 per cent., Wales of 20 per cent. In Ireland there was an excess of 10 per cent, and in Scotland of 57 per cent. For the British Isles the rainfall was 8 per cent. above the average.


DECEMBER, 1917
RAINFALL IN INCHES.
SCALE OF ENGLISH MILES
SCALE OF TINTS.
20 10 8 6 4 3 2 1 in.
BRITISH RAINFALL 1917

December—During this month high-pressure systems lay to the west of Ireland and the winds generally were north-westerly, whilst depressions were infrequent and again chiefly to the north. The rainfall was notably deficient in England, less than 1 inch falling over the greater part of the Midlands. The east of Scotland and centre of Ireland were also dry, having everywhere less than 2 inches. More than 3 inches was quite local in England and Wales, the only areas of any size lying in North Wales and the Pennines. In the west of Scotland and the north-west and south-west of Ireland, however, considerable districts had more than 3 inches, and in the central parts of Argyll, Inverness-shire and Ross-shire, more than 6 inches fell rising to 20 inches locally.


DECEMBER, 1917
PER CENT. OF AVERAGE
SCALE OF ENGLISH MILES
SCALE OF TINTS.
100
50
25 %
Butt of Lewis
Thurso
Moray Firth
R. Spey
50
Nairn
R. Dee
Aberdeen
Skye
Barra Hd
Mull
Oban
Dundee
50
Firth of Forth
Edinburgh
R. Tweed
Glasgow
Islay
100
Ayr
Dumfries
Newcastle
R. Tyne
Solway Firth
Belfast
I. of Man
Sligo
Westport
Cavan
Flamborough Hd
Leeds
Hull
R. Humber
Holyhead
Liverpool
Manchester
Sheffield
Lincoln
Wash
Galway
Dublin
R. Shannon
Limerick
Carlow
Wexford
Waterford
Norwich
Birmingham
Cambridge
50
Killarney
Cork
C. Clear
Milford
25
Brecon
Bristol Channel
Cardiff
Bristol
Oxford
London
100
Bude
Southampton
Brighton
Beachy Hd
I. of Wight
Exeter
Portland
50
Plymouth
Start Pt
Land's End
Scilly Is

The least rainfall in relation to the average occurred in the south-west of England and Wales, and a small part of Forfarshire and Kincardineshire, where less than 25 per cent. of the average amount fell. Less than half the average was general from Cornwall to the Wash, and from Cheshire to the Isle of Wight, and also in the eastern Midlands of Scotland and parts of central Ireland. Three isolated areas, situated respectively around the North Channel, near Newcastle-on-Tyne, and the Thames Estuary, just reached the average fall.

The general rainfall was 63 per cent. below the average in Wales, 49 per cent. in England, 37 per cent. in Scotland, 30 per cent. in Ireland, and 42 per cent. below the average for the British Isles as a whole.

TABLE I.—*Monthly Rainfall in* 1917 : *the Average*, 1875-1909, *being taken as* 100.

Div.	Station.	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
I.	St. Pancras, Camden Square ..	71	56	102	126	114	232	161	167	115	120	78	52	120
II.	Tenterden, View Tower........	71	45	87	106	149	79	152	265	39	112	54	99	104
,,	Edenbridge, Falconhurst	62	45	100	129	126	137	167	284	93	127	55	92	117
,,	Patching	58	85	98	101	60	200	129	229	63	110	39	78	102
,,	Fordingbridge, Oaklands	45	49	150	123	70	141	158	183	79	128	32	38	96
,,	Sherborne St. John	58	41	92	94	67	92	194	187	84	132	19	47	93
III.	Royston, Therfield	92	43	96	88	113	91	222	210	83	160	58	34	116
,,	Oxford, Magdalen College......	80	75	103	76	107	98	145	142	81	142	28	43	96
,,	Wellingborough, Swanspool....	131	51	87	81	131	95	70	281	84	111	46	31	102
,,	March	112	56	110	89	54	93	99	180	112	129	58	41	98
IV.	Shoeburyness	85	41	157	135	117	37	203	241	31	85	72	100	108
,,	Bury St. Edmunds, Westley....	118	36	132	102	39	84	106	199	66	146	69	57	99
,,	Geldeston	122	72	164	118	43	170	159	169	79	108	74	72	112
,,	Holkham Hall	115	76	95	136	28	108	61	161	74	153	84	58	98
V.	Bishops Cannings..............	54	63	138	80	97	119	147	186	74	167	35	40	103
,,	Evershot, Melbury House	20	44	127	81	93	88	136	187	90	101	21	30	80
,,	Ashburton, Druid House........	32	23	125	54	112	148	98	211	84	132	44	21	83
,,	Barnstaple	45	50	121	127	95	194	93	196	89	157	21	34	104
,,	Falmouth Observatory	67	34	139	62	119	109	46	192	66	150	45	32	85
,,	Altarnon Sanctuary	66	41	120	82	104	206	68	178	66	169	77	30	96
,,	Litton, Sherborne Reservoir....	41	46	131	115	74	198	117	286	120	191	34	21	115
VI.	Stroud, Field Place	52	50	171	78	124	107	86	207	121	107	22	34	97
,,	Church Stretton, Wolstaston ..	62	45	97	84	143	103	57	193	72	104	48	35	90
,,	Malvern, Church Street........	65	51	157	58	187	103	98	197	81	108	38	38	100
,,	Ryton-on-Dunsmore	100	71	76	84	116	101	65	157	71	103	38	43	87
VII.	Belvoir Castle	138	39	79	84	69	81	62	199	79	103	37	27	85
,,	Revesby	182	72	103	168	79	78	40	280	44	96	72	62	106
,,	Lincoln, Skellingthorpe Hall ..	162	54	80	110	81	46	49	214	56	91	67	53	91
,,	Mickleover Manor	142	66	118	69	122	98	49	156	69	151	79	43	99
VIII.	Middlewich, Bostock Hall......	109	75	93	119	115	111	40	166	59	167	114	41	103
,,	Stonyhurst College............	79	57	89	61	54	115	51	120	78	187	135	60	94
,,	Southport, Hesketh Park	76	53	155	89	125	90	32	164	76	180	105	53	103
IX.	Sheffield, Redmires Reservoir ..	97	20	121	82	55	77	40	159	43	101	107	73	84
,,	Arncliffe Vicarage	86	26	52	91	55	93	44	169	133	110	131	72	91
,,	Wetherby, Ribston Hall	114	38	107	114	73	60	37	239	30	109	85	57	92
,,	Hull, Pearson Park............	194	44	96	103	85	66	51	189	40	81	60	72	92
,,	Scarborough, Osgodby	142	36	145	159	56	62	66	188	26	95	75	50	93

TABLE I.—*Monthly Rainfall in* 1917 : *the Average,* 1875–1909, *being taken as* 100—(*continued*).

Div.	Station.	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
X.	Darlington, Cleveland Parade..	194	57	127	97	54	81	38	210	43	65	34	76	88
,,	Newcastle-on-Tyne, Town Moor	179	51	98	124	80	66	29	237	101	74	50	105	101
,,	Howick Hall.................	130	61	86	145	64	40	65	214	49	76	64	65	89
,,	Carlisle, Spital Cemetery	63	58	92	128	89	83	40	142	93	130	101	49	91
,,	Borrowdale, Seathwaite	45	19	66	82	90	97	42	173	160	172	122	57	95
,,	Appleby, Castle Bank..........	64	32	73	132	107	84	44	256	94	120	87	47	95
XI.	Abergavenny, Larchfield	45	28	145	56	141	87	71	253	104	105	44	26	90
,,	Ystalyfera, Wern School	43	42	72	110	99	102	110	253	80	148	84	31	98
,,	Cardiff, Ely	37	51	105	86	131	106	77	174	77	145	62	27	91
,,	Haverfordwest	33	63	112	78	128	120	113	207	72	100	72	22	89
,,	Aberystwyth, Gogerddan	63	87	80	117	114	113	55	236	117	145	105	54	110
,,	Birmingham W.W., Tyrmynydd	41	22	89	93	123	78	50	252	66	134	92	28	88
,,	Wrexham, Pack Saddle Res. ..	94	54	143	98	131	81	62	222	44	146	119	45	107
,,	Llandudno....................	38	62	100	89	123	109	37	168	39	137	69	61	88
,,	Holyhead	70	98	76	86	195	108	75	270	88	137	62	64	110
,,	Douglas	77	84	76	88	168	62	55	179	76	154	91	83	101
XII.	Auchencairn, Torr House	69	41	71	84	130	80	62	125	100	193	113	76	99
,,	Drumlanrig Castle	74	37	86	114	119	90	45	130	132	173	126	59	99
,,	Hawick, Branxholme	97	39	52	139	109	100	59	176	115	124	100	63	97
XIII.	North Esk Reservoir	98	61	70	123	120	59	85	128	93	90	96	80	92
,,	Marchmont House	187	45	53	131	86	47	57	236	55	109	72	72	99
XIV.	Airdrie, Hillend Reservoir......	61	42	70	68	98	113	92	126	77	131	188	77	99
,,	Girvan, Pinmore	72	38	67	112	122	104	51	105	70	196	131	73	97
,,	Loch Thom	54	33	72	55	129	112	69	84	89	204	222	67	102
XV.	Lochgilphead, Poltalloch	64	35	80	104	166	94	38	122	107	218	220	74	113
,,	Islay, Eallabus................	83	37	90	99	169	106	40	80	85	245	182	127	116
,,	Mull, Quinish	54	27	44	90	129	85	30	70	101	213	129	60	88
XVI.	Loch Leven Sluice	57	20	22	72	87	62	76	131	54	117	94	45	72
,,	Loch Dhu	36	17	67	54	121	101	42	127	93	175	144	45	85
,,	Blair Atholl	58	17	61	53	97	108	45	138	76	133	127	39	81
,,	Dundee, Eastern Necropolis....	74	69	89	74	97	72	74	167	61	87	118	45	88
XVII.	Fettercairn, The Burn	86	53	91	45	129	67	51	157	61	109	84	21	81
,,	Braemar......................	86	23	89	58	117	96	65	150	58	113	120	39	88
,,	Aberdeen, Cranford House	124	39	78	71	56	69	82	147	75	108	114	40	85
,,	Gordon Castle	150	39	60	159	61	149	71	93	69	130	199	57	103
XVIII.	Glenquoich	64	31	50	104	52	116	45	111	171	183	239	62	104
,,	Drumnadrochit...............	134	39	75	142	73	120	37	160	99	163	146	68	104

TABLE I.—*Monthly Rainfall in* 1917: *the Average,* 1875–1909, *being taken as* 100—(*continued*).

Div.	Station.	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
XVIII.	Inverness, High School	100	28	88	178	103	181	45	140	94	133	162	73	107
,,	Fort William, Atholl Bank	44	25	58	69	50	111	12	99	136	177	192	58	90
,,	Loch Torridon, Bendamph	73	32	75	137	46	108	36	94	121	206	182	72	102
,,	Stornoway	83	30	81	127	97	146	59	115	152	182	128	56	104
XIX.	Dunrobin Castle	127	38	86	135	74	102	32	151	112	217	186	71	113
,,	Wick	150	33	94	119	39	169	51	91	125	158	167	52	105
XX.	Glanmire, Lota Lodge	89	45	126	32	182	63	70	196	33	89	31	57	82
,,	Killarney. District Asylum	53	32	68	61	96	95	91	249	40	136	39	57	83
,,	Valencia, Glanleam	51	62	116	61	102	94	115	164	63	144	65	66	91
,,	Waterford, Brook Lodge	69	46	124	59	149	63	83	213	57	70	58	55	86
,,	Nenagh, Castle Lough	31	51	96	96	124	63	73	218	44	153	84	44	90
,,	Ennistymon House	48	49	94	60	85	89	63	165	77	162	100	54	90
XXI.	Gorey, Courtown House	58	39	114	42	162	92	91	268	54	69	62	81	94
,,	Abbey Leix, Blandsfort	42	64	162	52	120	71	49	237	79	89	74	60	94
,,	Dublin, FitzWilliam Square	60	88	152	44	144	80	71	246	77	90	65	99	105
,,	Mullingar, Belvedere	52	88	84	71	89	77	108	179	79	189	130	72	105
,,	Greenore	90	111	100	72	156	56	90	189	71	127	91	70	103
XXII.	Tuam, Gardenfield	34	86	86	81	85	145	78	166	86	185	78	89	101
,,	Crossmolina, Enniscoe	81	46	108	122	98	113	74	162	83	165	117	59	102
,,	Cong, The Glebe	60	51	83	89	98	101	89	199	97	177	109	70	104
,,	Markree Observatory	78	53	109	107	113	81	95	162	98	220	214	70	120
XXIII.	Belturbet, Cloverhill	56	104	91	105	93	79	72	178	76	178	138	47	103
,,	Armagh Observatory	64	121	118	128	124	120	82	131	69	148	135	69	109
,,	Seaforde	59	84	89	74	187	44	68	200	61	123	92	79	97
,,	Belfast, Queen's University	72	94	132	109	186	76	68	109	61	158	146	72	106
,,	Ballymena, Harryville	85	70	96	190	158	86	105	122	69	166	146	113	117
,,	Limavady, Drenagh	80	85	100	135	114	109	80	170	46	176	171	93	116
,,	Omagh, Edenfel	73	82	115	99	85	91	57	133	113	223	196	83	116
,,	Killybegs	96	45	80	114	122	100	65	148	108	186	192	79	114
	England (Mean of 43 Stations)	80	45	106	97	91	107	83	194	85	130	70	51	97
	Wales (,, 9 ,,)	49	52	98	91	128	100	74	228	78	133	80	37	96
	Scotland (,, 27 ,,)	76	34	69	97	97	102	53	123	103	168	157	63	97
	Ireland (,, 23 ,,)	65	65	103	86	123	87	80	181	73	150	110	70	101
	British Isles (,, 103 ,,)	7[illegible]	47	92	94	105	100	73	173	87	146	108	58	98

MONTHLY RAINFALL AT 299 STATIONS IN THE BRITISH ISLES DURING 1917.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	London 2	St. Pancras (Camden Sq.)	1·30	·93	1·74	2·20	1·99	5·29	4·13	3·99	2·30	3·25	1·82	1·10	30·04
II.	Surrey 4	Warlingham (Redvers Rd.)	1·84	1·11	1·73	2·96	1·96	1·94	4·91	6·53	2·49	4·82	1·93	2·62	34·84
,,	,, ... 6	Haslemere (Hazelhurst) ...	2·06	1·31	2·51	2·90	1·63	2·11	4·34	7·12	2·38	5·33	1·34	2·32	35·35
,,	,, ... 6	Woking (The Grange)......	1·20	·89	1·87	1·95	1·59	2·33	5·25	4·34	1·76	3·53	·95	1·51	27·17
,,	Kent 1	Tenterden (View Tower)...	1·51	·85	1·69	1·87	2·45	1·61	3·35	6·40	·87	3·88	1·64	2·74	28·86
,,	,, ... 1	Folkestone (Cherry Gardens)	3·11	·66	1·87	2·00	1·62	2·87	3·05	6·10	·98	3·78	2·36	2·24	30·64
,,	,, ... 2	St. Peter's Court	2·60	·52	1·62	1·54	·55	1·39	3·66	5·63	·88	2·26	1·10	1·44	23·19
,,	,, ... 3	Ospringe (Lorenden)	2·03	·27	1·70	1·96	1·61	1·62	5·00	6·92	·63	3·44	1·34	2·06	28·58
,,	Sussex 2	Patching	1·50	1·84	1·92	1·84	1·08	4·25	3·16	5·78	1·63	4·41	1·37	2·26	31·04
,,	,, ... 4	Balcombe (The Gables) ...	2·11	1·44	2·16	2·08	1·66	1·80	2·84	7·58	2·40	5·21	1·99	2·41	33·68
,,	,, ... 5	Eastbourne (Wilm'gtonSq)	1·65	1·16	1·68	1·54	1·30	3·52	3·06	5·97	1·38	5·31	2·57	2·84	31·98
,,	,, ... 7	Crowborough (Uckfield Ldg.)	1·81	1·42	2·13	2·77	1·95	2·40	3·92	6·74	2·41	5·90	2·64	2·52	36·61
,,	Hampshire 1	Totland Bay (Aston House)	1·09	1·35	2·26	2·70	1·75	1·01	3·18	4·30	1·70	3·95	·80	1·17	25·26
,,	,, ... 4	West Dean Rectory........	1·11	1·09	3·03	2·58	2·72	4·95	4·69	5·28	1·68	4·18	·75	1·20	33·26
,,	,, ... 5	Bps. Waltham (Swanmore Ho.)	1·65	1·45	3·58	2·80	1·57	3·65	3·85	6·96	2·60	7·21	1·35	1·72	38·39
,,	,, ... 8	Sherborne St. John	1·34	·91	1·90	1·80	1·28	2·10	4·71	4·77	1·88	4·58	·56	1·30	27·13
III.	Hertfordshire 2	St. Albans (County Museum)	1·61	1·08	1·97	2·03	1·85	1·62	4·01	5·11	1·88	4·92	1·46	·67	28·21
,,	,, ... 3	Royston (Therfield Rec.)...	1·51	·70	1·61	1·48	2·29	2·16	6·11	5·75	1·64	4·36	1·35	·68	29·64
,,	Buckinghamshire ... 3	Slough (Upton).......... ...	1·30	·97	1·74	2·05	1·74	2·10	4·75	3·98	1·75	3·82	1·09	1·08	26·37
,,	,, ... 3	Hampden House	1·61	1·24	2·02	1·85	2·17	2·31	5·22	6·25	1·36	4·83	·98	·95	30·79
,,	,, ... 5	Buckingham (Adstock Fields)	1·64	1·47	1·60	1·12	2·19	1·95	3·25	5·42	1·67	3·94	·87	·81	25·93
,,	Oxfordshire 3	Oxford (Magdalen College)	1·43	1·21	1·49	1·27	1·94	2·22	3·53	3·46	1·61	3·99	·64	·88	23·67
,,	,, ... 4	Goring (Elmcroft)	1·52	·96	2·09	1·46	1·34	2·31	5·05	5·75	1·99	4·42	·57	1·24	28·70
,,	Northamptonshire.. 4	Wellingboro' (Swanspool)..	2·48	·86	1·49	1·44	2·59	2·03	1·77	6·64	1·80	2·88	1·01	·67	25·66
,,	Huntingdonshire ... 1	Huntingdon (Brampton Gr.)	1·56	·88	1·54	1·79	1·04	3·54	2·34	5·00	1·98	3·60	·99	·19	24·45
,,	Bedfordshire 3	Shillington	1·43	·64	1·40	1·57	2·02	4·91	5·18	5·01	2·71	3·87	1·09	·65	30·48
,,	Cambridgeshire ... 2	Ely (The Palace)...........	1·56	·85	1·92	1·22	·85	2·46	2·53	3·96	1·97	3·55	1·38	·70	22·95
,,	,, ... 3	Wisbech (Bank House) ...	1·74	·73	1·27	1·54	·91	2·52	1·42	4·27	1·47	2·84	1·40	·64	20·75
IV.	Essex 2	Grays Sewage Works	·71	·69	1·13	1·37	2·26	·99	5·97	3·93	1·21	2·31	1·17	1·20	22·94
,,	,, ... 2	Epping (The Hemnalls) ...	1·79	1·00	1·81	2·85	2·58	1·39	5·31	4·57	1·38	3·98	1·75	1·13	29·54

ENGLAND—(*continued.*)

Div.	County.		Station.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
IV.	Essex	3	Bradwell-on-Sea (Bradwell Hall)	1·08	·82	1·94	1·68	1·05	·98	2·35	3·83	·89	2·68	1·03	1·51	19·84
,,	,,	4	Shalford (Littles)	1·43	·69	1·50	1·73	1·12	·95	2·67	5·25	1·23	3·45	1·60	·98	22·60
,,	Suffolk	1	Hawkedon Rectory	2·11	·73	2·12	1·68	·91	2·22	2·77	5·29	1·43	3·55	1·76	1·17	25·74
,,	,,	2	Ipswich (Woolverstone Pk.)	1·66	·54	2·13	1·52	1·14	1·52	2·59	5·33	1·49	3·84	1·83	1·76	25·35
,,	,,	3	Aldborough (Aldringham Ho.)	2·15	·80	3·27	2·09	·72	2·02	2·58	4·71	1·66	3·99	1·88	1·52	27·39
,,	,,	4	Burgh Hall [Yarmouth]	2·38	1·20	2·85	2·22	·49	2·69	4·18	4·17	1·53	3·26	1·62	1·12	27·71
,,	Norfolk	1	Diss (The Cedars)	1·51	4·32	3·52	1·29	1·82	2·02	·83	2·35	1·27	2·60	2·80	2·26	26·59
,,	,,	2	Aylsham (Millgate)	2·46	1·25	2·77	2·35	·66	1·10	2·56	4·79	1·96	3·70	2·08	1·41	27·09
,,	,,	3	Sandringham House	2·54	·50	2·06	2·10	·60	2·24	1·74	5·75	1·61	3·87	1·88	1·26	26·15
,,	,,	4	Watton	2·62	·74	2·31	1·87	·57	1·14	1·19	5·34	2·62	4·23	2·28	1·15	26·06
V.	Wiltshire	1	Calne (High Street)	1·87	1·06	2·04	1·66	2·08	3·25	3·59	6·67	1·51	5·09	·49	1·06	30·37
,,	,,	2	Mere (Charnage)	1·37	1·19	2·92	2·04	2·07	6·51	4·17	5·35	2·26	5·32	1·32	1·16	35·68
,,	,,	3	Salisbury Plain (Shrewton)	1·54	1·29	3·49	3·23	2·46	5·86	4·19	5·29	1·73	4·26	·76	1·01	35·11
,,	,,	5	Marlborough (Mildenhall)	1·06	1·11	1·93	1·72	2·20	2·79	4·32	6·17	1·37	5·51	·70	1·26	30·14
,,	Dorsetshire	3	Wareham (Binnegar Hall).	1·37	1·07	3·33	1·63	3·22	1·72	2·45	5·85	1·81	4·94	1·48	1·55	30·42
,,	,,	3	Beaminster (Hamilton Lodge)	1·25	1·61	3·29	1·71	2·04	2·47	4·06	5·61	2·88	3·93	1·25	1·55	31·65
,,	,,	4	Wimborne (Codford House)	1·16	1·06	3·12	1·80	3·07	1·95	2·13	5·82	1·93	5·23	·97	1·40	29·64
,,	South Devonshire	3	Salcombe (Sandhills)	1·59	1·33	3·98	1·11	2·12	2·08	2·22	4·42	1·98	5·25	2·03	1·20	29·31
,,	,, ,,	4	Princetown (H.M. Prison)	4·10	2·32	5·25	4·64	4·31	5·53	4·77	12·78	5·29	14·29	6·43	2·75	72·46
,,	,, ,,	5	Teignmouth (Den Gardens)	1·00	·94	4·03	1·23	1·91	2·10	1·65	5·99	1·65	3·56	1·30	1·29	26·65
,,	,, ,,	6	Cullompton	1·30	1·71	4·13	1·68	2·00	3·22	2·50	5·65	1·91	5·42	2·49	1·11	33·12
,,	North ,,	2	Chumleigh (Leigh House)	1·50	1·34	3·30	2·47	1·67	5·03	2·62	6·41	1·64	7·64	3·44	1·24	38·30
,,	,, ,,	2	Barnstaple (N. Devon Athenæum)	1·43	1·39	2·97	2·79	2·06	4·29	2·65	6·44	2·79	7·37	3·14	1·43	38·75
,,	,, ,,	3	Okehampton (Oaklands)	2·22	1·07	3·43	3·04	2·34	4·67	2·31	9·00	2·36	10·10	3·73	1·97	46·24
,,	Cornwall	1	Redruth (Trewirgie)	2·65	1·37	4·87	1·35	2·64	3·52	1·52	6·17	1·97	6·85	2·26	1·61	36·78
,,	,,	1	Morwenstow Vicarage	1·60	2·50	3·49	1·86	2·36	5·23	3·34	5·73	2·45	5·45	2·85	1·06	37·92
,,	,,	2	Penzance (Morrab Garden)	3·08	1·51	4·04	2·27	1·86	3·33	1·83	6·18	2·41	6·53	2·25	2·14	37·43
,,	,,	2	St. Austell (Trevarna)	2·87	1·82	4·61	1·62	2·95	3·85	1·69	6·50	2·03	7·65	2·88	1·63	40·10
,,	,,	3	Altarnon Sanctuary	3·96	2·03	5·24	3·09	3·23	6·37	2·71	8·51	2·90	11·77	4·68	2·25	56·74
,,	Somersetshire	2	Street (Hind Hayes)	·73	1·13	2·93	1·87	2·14	6·25	2·83	6·34	1·68	3·95	·93	·46	31·24
,,	,,	2	Burnham (Chalbury)	·88	1·57	3·26	1·72	2·23	4·01	3·24	5·84	1·85	5·61	1·14	·49	31·84
,,	,,	5	Winsford School	1·52	1·78	3·78	3·44	1·75	9·23	2·69	10·68	2·53	11·11	3·66	1·69	53·86
VI.	Gloucestershire	3	Stroud (Field Place)	1·22	1·06	3·43	1·62	2·61	2·59	2·37	5·99	2·90	3·45	·60	·93	28·77
,,	,,	4	Mickleton (Bank House)	1·41	·95	2·00	·99	3·34	1·43	1·98	3·67	1·61	2·46	·98	1·69	22·51
,,	,,	5	Clifton (Harley Place)	·99	1·63	3·42	2·05	2·16	2·68	2·51	8·10	2·81	6·78	1·26	·63	35·02
,,	,,	7	**Lechlade (Claydon House)**	1·38	1·21	2·21	1·29	2·72	2·90	2·69	5·08	2·06	3·33	·78	1·28	26·93

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VI.	Herefordshire 1	Ross (Birchlea)...............	1·23	1·12	3·10	1·37	3·96	2·43	2·09	5·23	2·73	3·36	·74	·64	28·00
,,	Shropshire........... 3	Ludlow (Ashford House)...	1·90	1·27	3·19	1·91	4·33	2·89	2·47	7·75	2·04	3·24	1·01	1·10	33·10
,,	,, ... 3	Bishops Castle Vicarage ...	1·57	1·17	2·61	2·01	3·96	2·20	1·55	5·47	1·56	3·90	1·47	1·37	28·84
,,	,, ... 3	Much Wenlock (Willey Pk.)	2·27	1·09	2·66	1·96	3·09	2·58	2·16	5·44	1·51	2·99	1·50	·98	28·23
,,	,, ... 4	Oswestry (The Mount Res.)	1·64	1·34	3·13	1·71	3·79	3·05	2·01	5·81	1·12	4·29	2·54	1·16	31·59
,,	Staffordshire 2	Market Drayton (Old Springs)	2·48	1·14	2·65	1·13	3·50	1·29	1·46	4·60	1·37	5·01	2·31	1·06	28·00
,,	,, ... 3	Shugborough................	2·15	1·17	1·89	1·76	2·88	2·52	1·53	4·36	1·63	4·96	1·92	1·50	28·27
,,	,, ... 4	Burton (Shobnall)	1·90	·99	1·31	1·09	2·82	1·95	1·41	4·52	1·61	3·80	1·49	1·43	24·32
,,	,, ... 5	Mayfield Ho. [Ashbourne]	3·13	1·29	2·06	1·70	2·51	2·34	1·52	6·17	1·46	5·56	3·44	1·52	32·70
,,	Worcestershire 2	Worcester (Belmont Road)	1·52	·91	2·26	·96	3·87	1·65	2·44	4·15	1·81	1·78	·80	1·00	23·15
,,	,, ... 2	Dudley (Borough Cemetery)	1·61	1·01	1·75	1·21	2·79	2·41	2·22	7·12	1·95	3·06	1·47	1·21	27·81
,,	Warwickshire 1	Wormleighton Hall.........	1·98	1·09	1·64	1·80	2·22	1·69	1·80	5·08	2·06	2·80	·88	1·10	24·14
,,	,, ... 1	Coventry (Keresley Grange)	2·09	1·38	1·52	1·43	2·45	5·08	1·68	4·77	1·72	3·20	1·06	1·03	27·41
VII.	Leicestershire 2	Market Harboro' (Rose Hill)	1·98	·86	1·02	1·81	2·59	3·03	1·30	3·99	1·90	2·97	1·12	·80	23·37
,,	,, ... 4	Loughboro' (Nan Panton Res.)	2·06	·64	1·78	1·34	2·49	2·96	2·19	6·28	1·76	3·70	·95	1·24	27·39
,,	,, ... 4	Belvoir Castle	2·38	·66	1·33	1·53	1·49	1·66	1·59	5·36	1·75	3·00	·82	·61	22·18
,,	Lincolnshire 2	Stamford (St. George's Sq.)	2·18	·58	1·44	1·42	1·24	1·92	1·10	6·41	1·21	2·49	·73	·49	21·21
,,	,, ... 3	Boston (Black Sluice, Skirbeck)	2·36	·90	1·06	2·01	1·38	1·85	1·08	4·47	1·04	3·12	1·36	·89	21·52
,,	,, ... 3	Sleaford (Kesteven Co. Asylum)	2·07	·93	1·72	1·13	1·61	1·05	1·03	4·84	1·09	2·49	1·10	·69	19·75
,,	,, ... 3	Willingham-by-Stow	2·53	·82	1·35	1·95	1·66	1·22	1·35	5·20	·84	2·75	1·52	·88	22·07
,,	,, ... 4	Louth (Westgate)............	2·62	·74	1·71	2·85	1·31	1·83	1·69	4·76	1·57	3·09	1·78	1·81	25·76
,,	,, ... 6	Burton-upon-Stather Vic..	2·90	·73	1·78	1·47	1·60	1·10	·79	7·25	·65	2·84	1·83	1·46	24·40
,,	Nottinghamshire ... 5	Mansfield (West Bank) ...	2·65	·66	2·06	1·64	1·91	1·59	1·17	5·52	1·06	2·79	·91	1·41	23·37
,,	Derbyshire 6	Buxton (Devonshire Hospital)	2·70	·97	2·69	3·39	2·09	2·19	2·06	8·77	2·39	7·45	4·92	2·55	42·17
VIII.	Cheshire 1	Wyhetnshawe Hall	1·93	·89	1·73	1·46	2·34	1·95	1·90	5·77	1·46	4·82	3·18	1·27	28·70
,,	,, ,, ... 2	Middlewich (Bostock Hall)	2·40	1·38	1·77	2·03	2·50	2·82	1·15	5·52	1·57	5·46	2·96	1·22	30·78
,,	,, ... 4	Eccleston	2·01	1·38	2·20	1·65	3·56	2·34	1·45	6·47	1·01	4·69	1·90	1·05	29·71
,,	South Lancashire... 1	Liverpool (Huyton Vic.)..	1·73	1·58	2·78	1·74	3·16	1·66	1·59	6·99	1·73	6·41	3·43	1·38	34·18
,,	,, ,, ... 3	Bolton (Smithills Hall) ...	3·57	1·89	3·40	2·22	2·35	2·46	2·64	7·89	2·67	9·54	6·57	2·62	47·82
,,	Central ,, ... 1	Burnley (Swinden)	3·28	1·00	3·49	2·09	2·37	2·48	1·82	8·62	2·57	7·72	4·17	3·33	42·94
,,	,, ,, ... 1	Stonyhurst College	3·24	1·86	3·11	1·54	1·53	3·71	2·11	6·21	3·29	8·80	5·97	2·81	44·18
,,	,, ,, ... 3	Southport (Hesketh Park)	1·94	1·10	3·26	1·64	2·66	2·03	·93	6·12	2·34	6·73	3·33	1·63	33·71
,,	North ,, ... 4	Lancaster (Strathspey) ...	2·16	1·26	2·06	1·36	2·21	3·01	1·29	7·96	4·12	5·87	4·67	2·10	38·07
IX.	Yorkshire, W.R. ... 2	Settle (Gas Works)	3·06	·90	3·48	2·09	2·25	3·13	1·80	7·96	2·93	7·11	4·38	2·03	41·12
,,	,, ,, ... 7	Sheffield (Weston Park) ...	2·14	·64	2·55	1·83	1·68	2·58	1·04	5·04	·85	4·00	2·15	1·52	26·02

ENGLAND—(*continued*).

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
IX.	Yorkshire, W.R. ... 7	Doncaster (Avenue Road)	2·35	·55	1·71	1·75	2·03	1·17	1·02	4·66	·66	2·70	1·23	1·23	21·06
,,	,, ,, ... 8	Meltham(HarewoodLodge)	3·09	·63	3·74	3·59	2·65	2·01	1·46	6·52	1·97	7·97	5·10	3·00	41·73
,,	,, ,, ... 9	Garforth (Manor Farm) ...	2·57	·54	2·10	1·75	1·96	1·38	·91	5·29	·46	3·33	1·09	1·19	22·57
,,	,, ,, ...10	Ilkley (St. James' Road)...	3·47	·71	3·45	2·31	2·31	1·67	·93	8·29	1·54	5·90	2·49	1·61	34·68
,,	,, ,, ...10	York (Mount Villas)	3·39	·79	2·11	2·23	1·29	2·15	1·09	5·76	·67	3·43	1·90	1·18	25·99
,,	,, E.R. ... 2	Birdsall Gardens	4·29	·86	2·55	2·79	1·33	1·76	1·70	7·00	·91	3·81	2·44	1·96	31·40
,,	,, ,, ... 3	Patrington......................	2·39	·87	1·20	1·36	·82	2·09	1·20	5·10	·71	2·30	1·36	1·37	20·77
,,	,, ,, ... 3	MarketWeighton(DaltonHolme)	3·22	·76	1·75	2·00	1·56	1·31	1·18	6·52	1·00	3·45	1·70	1·54	25·99
,,	,, ,, ... 4	Bridlington	3·00	·86	1·75	2·11	·76	·92	1·03	5·38	·62	3·13	1·72	1·49	22·77
,,	,, N.R. ... 1	Leyburn (Bolton Hall) ...	3·22	·64	2·70	2·87	1·96	1·85	1·47	6·58	1·20	3·92	1·66	2·10	30·17
,,	,, ,, ... 2	Felixkirk (Mount St. John)	4·19	·76	2·86	1·85	·96	1·73	1·24	6·66	·60	2·99	1·93	1·96	27·73
,,	,, ,, ... 5	Whitby (Mulgrave Castle)	3·59	·88	2·20	2·66	1·82	1·68	2·47	6·59	·84	2·78	1·84	1·11	28·46
,,	,, ,, ... 6	Middlesbrough (Ormesby)	3·41	1·26	1·95	2·13	1·19	2·04	·95	6·86	·91	2·20	1·69	2·13	26·72
X.	Durham 1	BarnardCastle(CountySchool)	3·54	1·04	2·66	1·92	2·41	1·91	1·16	6·61	·96	2·47	1·49	2·45	28·62
,,	,, ... 2	Wearhead Station............	5·04	·78	2·16	3·02	3·06	1·49	·91	9·21	3·48	7·01	5·52	2·63	44·31
,,	,, ... 2	Ushaw (St. Cuthbert's College)	4·64	1·40	3·36	2·94	3·64	2·48	1·74	8·10	1·40	3·20	1·26	3·23	37·39
,,	Northumberland ... 2	Haltwhistle(BellisterCastle)	2·43	·98	2·18	2·54	3·39	1·91	·82	6·41	3·17	4·66	4·05	2·00	34·54
,,	,, ... 3	Corbridge (Howden Dene)	3·79	·88	1·80	2·98	2·97	1·79	·86	6·52	1·49	2·53	1·34	2·26	29·21
,,	,, ... 4	Bellingham (High Green Manor)	4·35	1·36	1·79	2·32	2·99	1·18	1·46	6·96	2·56	3·86	2·65	2·46	33·94
,,	,, ... 5	Morpeth (Bothalhaugh) ...	2·85	·99	2·40	2·10	2·26	1·12	1·00	6·69	2·05	2·07	1·02	2·65	27·20
,,	,, ... 5	Howick Hall..	2·44	1·11	1·84	2·50	1·40	·82	1·75	6·29	1·10	2·57	1·81	1·86	25·49
,,	,, ... 6	Ilderton (Lilburn Cottage)	3·29	1·32	1·31	3·03	1·92	1·13	1·06	7·53	1·12	3·26	2·11	1·76	28·84
,,	Cumberland 1	Penrith (Benson House) ...	2·27	1·96	1·99	3·12	2·09	2·64	1·44	5·04	3·24	5·27	3·59	1·35	34·00
,,	,, ... 1	Wigton (Brookfield).........	1·44	1·35	1·22	2·74	1·89	2·00	1·19	5·05	3·13	4·98	2·83	1·88	29·70
,,	,, ... 2	Borrowdale (Seathwaite)...	*6·00*	2·06	7·03	5·64	6·77	6·75	3·80	19·83	18·04	21·86	16·52	8·55	122·85
,,	,, ... 3	Whitehaven (Irish Street)..	2·51	1·43	1·66	2·13	4·02	2·07	1·30	8·05	4·08	6·82	4·64	3·78	42·49
,,	,, ... 4	Silecroft (Old Chappels)...	3·96	2·85	3·64	2·89	3·54	3·00	1·52	7·86	5·33	10·45	8·69	5·38	59·11
,,	Westmorland 1	KirkbyStephen(RedmanHo.)	2·36	·84	3·74	3·18	2·09	1·95	1·85	9·05	3·17	6·01	3·69	1·84	39·77
,,	,, ... 3	Kendal (Crosthwaite Vic.)	2·93	1·65	2·72	1·87	3·15	2·99	2·52	11·43	4·85	9·63	5·62	3·18	52·54
England.	**Mean of 130 stations**	....	**2·23**	**1·14**	**2·47**	**2·04**	**2·17**	**2·56**	**2·42**	**6·16**	**2·00**	**4·79**	**2·20**	**1·62**	**31·80**

MONMOUTH, WALES AND THE ISLANDS.

XI.	Monmouth............ 3	Abergavenny (The Chain).	1·92	·81	4·21	1·91	4·17	2·13	1·74	7·89	2·82	4·58	1·74	1·04	34·96
,,	,, ... 4	Chepstow (Piercefield Pk.)	1·44	1·33	3·02	2·03	2·07	2·54	2·31	7·95	3·62	4·97	1·31	·64	33·23

MONMOUTH, WALES AND THE ISLANDS—(*continued.*)

Div.	County.		Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Glamorgan	3	Swansea (The Knoll)	2·23	2·61	2·91	2·42	2·88	3·33	4·47	9·04	3·40	8·11	4·12	1·30	46·82
,,	,, ...	6	Treherbert (Tyn-y-waun)...	3·31	2·23	5·03	4·15	4·98	3·46	5·23	17·69	4·62	12·78	6·40	2·36	72·24
,,	,, ...	7	Cardiff (Roath Park)	1·32	1·58	3·16	1·79	3·14	2·64	2·70	8·50	2·64	6·70	2·09	1·06	37·32
,,	Carmarthen	2	Carmarthen (The Friary)..	2·62	1·86	3·10	2·41	2·93	3·09	4·14	11·78	2·94	6·82	3·51	1·70	46·90
,,	,, ...	2	Llanwrda (Dolaucothy) ...	2·27	2·05	4·17	3·96	4·71	3·52	3·28	15·30	3·75	9·21	5·32	2·54	60·08
,,	Pembroke	3	St. David's	1·33	2·27	3·33	1·58	3·86	2·97	2·74	6·89	2·81	4·56	2·25	·79	35·38
,,	,, ...	4	Tenby (Glendower)	1·76	2·24	3·64	1·91	3·27	2·79	3·99	8·46	1·97	5·12	3·44	1·47	40·06
,,	Cardigan	2	Aberystwyth(NorthParade)	1·81	1·59	1·77	2·25	2·68	2·61	2·04	9·43	3·25	6·02	3·18	1·78	38·41
,,	,, ...	5	Birmingham W.W. (Claerddu)..	3·40	2·90	4·00	5·85	3·70	4·50	3·35	16·38	5·32	12·45	10·60	3·15	75·60
,,	Brecon	7	Brecon (New Inn)	*2·50*	*2·00*	3·42	2·01	3·85	·60	1·86	10·65	3·65	8·02	3·64	1·58	43·78
,,	,, ...	8	Gwernyfed Park[Glasbury]	1·29	1·00	2·63	1·81	4·30	2·43	1·99	7·01	2·36	4·18	1·24	1·50	31·74
,,	Radnor	1	Llandrindod Wells (Kimberley)	1·30	1·16	2·59	2·08	4·16	2·26	2·44	8·07	2·32	5·62	2·41	1·67	36·08
,,	Montgomery.........	4	Newtown, Penarth Weir...	1·50	1·01	2·63	1·98	3·65	3·10	1·66	5·75	1·42	4·53	2·01	1·57	30·81
,,	,, ...	5	Lake Vyrnwy (Bank Cynon Isaf)	2·24	1·14	3·82	2·03	3·08	2·74	2·75	8·92	3·29	8·42	4·53	2·31	45·27
,,	Flint	1	Mostyn Vicarage	2·19	1·41	2·58	1·90	3·08	2·25	1·22	6·67	1·30	6·62	2·65	1·52	33·39
,,	Denbigh	1	Cerrig-y-Druidion (Bwlch-y-Beudy)...	2·18	·60	3·10	3·05	3·05	2·13	1·50	9·33	2·18	8·20	4·42	2·58	42·32
,,	Merioneth	3	Blaenau Festiniog (Oakley Qrs.)	4·43	3·70	3·79	4·00	3·38	4·79	5·20	19·95	8·40	18·53	13·62	5·65	95·44
,,	,, ...	4	Dolgelly (Bryntirion)	3·42	3·19	4·99	5·20	3·08	5·05	2·93	11·09	7·06	10·55	7·89	3·31	67·76
,,	Carnarvon	2	Llandudno	·95	1·30	2·13	1·59	2·29	2·13	·93	5·29	·98	5·16	2·20	1·72	26·67
,,	,, ...	4	Abersoch	2·52	2·91	3·03	2·56	4·23	2·86	2·31	9·16	3·24	7·55	3·57	1·94	45·88
,,	Anglesey		Llanerchymedd (Llwydiarth Esgob)	2·09	1·50	2·38	1·93	3·80	2·19	1·14	9·79	2·56	7·99	3·04	2·69	41·10
Wales.	**Mean of 23 stations**			**2·17**	**1·85**	**3·28**	**2·62**	**3·50**	**2·88**	**2·69**	**10·05**	**3·30**	**7·68**	**4·14**	**1·99**	**46·15**
XI.	Isle of Man		Douglas (Borough Cemetery)	2·78	2·59	2·17	2·13	4·15	1·55	1·76	7·04	2·74	7·22	4·08	3·93	42·14

SCOTLAND.

Div.	County.		Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XII.	Wigtown	3	Stoneykirk (Ardwell Ho.)	3·18	2·02	1·93	1·63	3·34	1·75	1·84	2·78	3·19	6·66	4·35	3·77	36·44
,,	,, ...	4	Garliestown (Galloway House)	2·12	1·38	1·16	2·15	3·26	1·05	1·34	3·68	2·80	6·48	2·69	2·15	30·26
,,	Kirkcudbright	3	Dalry (Glendarroch)	2·91	1·54	3·46	2·77	5·36	2·72	1·40	6·11	3·24	11·16	6·01	4·02	50·70
,,	,, ...	4	Dalbeattie (Kirkennan) ..	2·30	1·54	2·60	2·36	4·22	2·34	2·17	6·10	3·79	8·57	4·46	3·81	44·26
,,	Dumfries	4	Dalton (Kirkwood)........	2·68	1·28	2·70	2·65	3·79	2·10	2·17	7·36	5·10	6·64	4·11	3·13	43·71
,,	,, ...	4	Moffat (Auchen Castle) ...	2·72	1·12	2·27	2·69	3·30	3·61	1·84	7·47	4·45	7·74	5·37	3·33	45·91
,,	,, ...	5	Langholm(Ewes,Burnfoot)	2·75	·90	1·95	2·30	3·49	2·51	1·87	8·88	2·83	8·82	5·70	3·52	45·52
,,	Roxburgh	3	Hawick (Wolfelee)	4·50	1·17	2·12	3·70	3·45	2·44	2·39	8·34	2·99	5·02	3·14	2·52	41·78
XIII.	Selkirk	2	Selkirk (TheHangingshaw)	3·13	·76	·94	3·46	2·23	1·05	1·26	6·66	1·77	4·33	2·99	2·34	30·92
,,	Peebles	1	Stobo Castle...	2·13	·74	2·39	2·30	1·88	2·20	1·32	5·27	2·91	5·62	4·37	1·56	32·69
,,	Berwick...............	4	Marchmont House	4·48	·96	1·40	2·98	2·18	1·12	1·88	8·35	1·46	4·18	2·32	2·02	33·33

SCOTLAND—(*continued.*)

Div.	County.		Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Haddington	3	Garvald (Donolly Reservoir)	6·73	·62	2·00	3·28	1·75	1·53	1·34	6·50	1·58	4·46	1·60	2·80	34·19
,,	Midlothian	5	West Calder (Addiewell)...	1·92	1·00	2·06	1·66	1·75	2·48	2·45	7·12	1·85	4·53	5·15	2·35	34·32
,,	,, ...	5	Edinburgh (Blackford Hill)	1·76	·58	1·09	1·20	1·47	1·51	1·41	4·77	1·00	2·62	2·00	1·71	21·12
XIV.	Lanark	5	Leadhills	2·96	1·79	3·67	3·94	3·01	4·07	2·79	9·22	5·88	10·33	8·38	3·45	59·49
,,	,, ...	5	Strathaven(E.OvertonHo.)	2·83	1·56	3·02	2·33	2·03	2·87	1·95	5·18	3·19	8·11	9·52	3·21	45·80
,,	Ayr.....................	3	Dalry (Blair).................	3·73	1·43	2·84	2·43	3·86	3·55	1·74	4·44	3·69	9·03	9·74	4·06	50·54
,,	,, ...	5	Maybole (Knockdon Farm)	2·62	1·51	2·31	1·78	3·05	2·93	2·19	3·93	2·34	8·00	7·42	2·35	40·43
,,	,, ...	8	Colmonell (Knockdolian)	2·73	1·06	2·03	1·93	3·89	2·76	2·05	3·61	2·49	9·57	5·54	4·13	41·79
,,	,, ...	13	New Cumnock(Ayr Sanatorium)	3·32	1·29	3·37	2·61	2·26	3·21	1·39	5·90	3·85	11·48	9·34	3·94	51·96
XV.	Dumbarton	2	Cardross (Kilmahew)	2·22	1·01	2·28	1·45	3·77	3·29	1·70	6·07	2·02	7·30	5·74	2·84	39·69
,,	Stirling	1	Falkirk (Westbank).........	1·83	·80	2·12	1·56	2·27	2·41	2·88	5·85	2·00	4·99	6·24	2·60	35·55
,,	,, ...	1	Kippen (Arngomery)	1·89	·98	2·84	1·36	4·01	3·34	1·38	5·27	2·56	6·84	6·33	2·63	39·43
,,	Bute	1	Rothesay (Ardencraig) ...	3·58	1·45	2·77	2·46	5·37	2·95	2·40	4·94	3·50	10·55	10·42	3·55	53·94
,,	Argyll	3	Morvern (Kingairloch) ...	5·51	1·59	4·74	4·04	5·97	5·21	2·16	10·50	10 03	19·59	17·00	6·03	92·37
,,	,, ...	4	Glenleven (Kinlochleven)..	3·64	1·66	4·81	4·28	3·08	7·15	2·40	9·93	9·83	13·68	19·11	4·58	84·15
,,	,, ...	5	Taynuilt (Barguilean)	3·06	1·07	3·35	2·58	3·34	4·23	·93	8·46	6·31	12·29	14·43	3·79	63·84
,,	,, ...	6	Loch Awe (Ford)............	4·38	1·77	3·78	2·99	3·95	3·42	2·73	7·64	6·78	13·66	15·24	4·61	70·95
,,	,, ...	9	Muasdale (Killean Manse)	2·61	1·67	2·16	1·88	4·76	3·73	1·46	3·27	2·97	9·52	7·02	2·99	44·04
,,	,, ...	10	Campbeltown (Witchburn)	2·87	1·39	2·48	2·54	5·31	2·59	3·78	5·20	2·11	11·51	8·35	4·56	52·69
,,	,, ...	11	Ardrishaig (Canal Office)...	4·16	1·46	3·81	3·08	4·31	3·03	1·89	5·38	4·82	12·23	14·70	4·69	63·56
,,	,, ...	12	Lochgoilhead (Nuthill) ...	4·11	2·33	4·95	2·79	3·52	4·29	1·82	7·97	5·76	13·74	14·89	4·54	70·71
,,	,, ...	14	Islay (Ardbeg)	3·65	1·98	2·92	3·21	4·48	3·24	2·02	4·30	3·37	9·81	10·25	4·77	54·00
,,	,, ...	14	Jura (Ardfin).................	3·91	1·58	3·83	3·00	6·29	2·18	1·47	4·67	3·44	11·60	10·82	5·08	57·87
,,	,, ...	14	Iona	3·01	1·70	1·94	2·25	3·57	2·40	1·70	3·33	4·28	9·05	8·67	3·45	45·35
,,	,, ...	14	Mull (Quinish)	2·99	1·19	1·88	2·67	3·86	2·79	1·22	3·49	5·24	12·52	8·02	3·97	49·84
,,	,, ...	14	Tiree (Cornaigmore)	2·64	·99	1·85	1·56	3·90	2·07	·97	3·50	3·69	10·11	5·24	2·45	38·97
XVI.	Fife	2	Colinsburgh (Balcarres) ...	2·74	·89	1·54	3·26	1·45	1·56	1·50	5·98	1·14	3·15	2·54	1·70	27·45
,,	,, ...	3	Cupar (Kinross Asylum)...	1·75	·80	1·59	1·36	1·88	1·52	1·23	4·82	1·62	2·87	2·79	1·44	23·67
,,	Perth	3	Balquhidder (Stronvar) ...	2·60	1·12	3·43	1·95	3·20	2·65	1·82	8·08	6·00	11·83	11·66	3·68	58·02
,,	,, ...	4	Glendevon (Tormaukin)...	2·28	1·17	2·87	2·55	4·24	3·21	2·37	8·04	4·13	8·60	5·60	2·05	47·11
,,	,, ...	7	Crieff (Strathearn Hydro.)	1·18	·76	1·91	1·48	4·17	1·97	1·26	5·28	1·85	4·83	4·26	1·84	30·79
,,	,, ...	11	Aberfeldy (Dall Avon) ...	1·19	·70	2·47	1·18	3·41	2·80	1·28	3·78	1·40	4·45	4·28	1·26	28·20
,,	,, ...	13	Glenlyon(MeggernieCastle)	2·99	1·01	3·49	1·72	2·21	4·25	1·98	6·51	4·01	9·74	9·06	3·48	50·45
,,	,, ...	15	Coupar Angus	1·04	·62	2·29	1·20	2·23	1·83	1·26	5·03	1·16	2·65	2·63	1·15	23·09
,,	Forfar	3	Arbroath (Muirheads Res.)	1·63	1·14	1·37	1·23	1·77	1·20	1·65	4·70	2·32	2·89	2·70	2·03	24·63
,,	,, ...	3	Glen Prosen (Pearsie)	1·99	1·14	3·21	1·32	3·14	1·77	1·19	6·86	1·92	3·68	3·39	·88	30·49

SCOTLAND—(*continued.*)

Div.	County.		Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Kincardine	1	Fettercairn (The Burn)	2·29	1·33	2·45	1·10	2·97	1·49	1·54	5·58	1·72	3·90	2·92	·73	28·02
,,	,,	3	Crathes (Pinewood)	2·67	1·02	2·67	1·43	1·56	1·61	1·96	4·54	1·53	3·50	3·08	1·21	26·78
,,	Aberdeen	1	Braemar (Derry Lodge)	*2·98*	*1·03*	3·83	1·94	2·37	2·13	1·54	5·41	2·12	4·61	5·35	*1·45*	34·76
,,	,,	1	Aberdeen (Cranford House)	2·93	·91	2·08	1·65	1·35	1·39	2·47	4·50	2·01	3·50	3·75	1·38	27·92
,,	,,	2	Strathdon Estate Office	2·68	1·20	3·17	2·52	2·07	2·66	2·13	5·60	1·92	3·91	4·96	1·43	34·25
,,	,,	4	New Deer School House	3·60	1·19	2·34	2·23	1·40	1·32	1·91	4·40	1·90	5·65	4·29	1·77	32·00
,,	,,	5	Huntly (Cruchie)	3·33	1·22	1·88	2·03	1·50	2·10	2·98	4·80	1·65	5·72	5·71	2·32	35·24
,,	Moray	2	Gordon Castle	2·99	·76	1·41	2·76	1·28	3·17	2·32	3·07	1·77	4·40	5·68	1·55	31·16
,,	,,	3	Grantown-on-Spey	3·59	·72	2·61	2·91	1·27	2·43	1·55	4·55	2·13	4·68	5·28	2·26	33·98
,,	Nairn	2	Nairn (Achareidh)	2·30	·54	1·88	2·45	1·81	2·62	1·32	5·44	1·75	3·68	4·66	1·52	29·97
XVIII.	Inverness	3	Kingussie	2·81	·67	2·89	1·97	2·20	2·16	1·95	4·21	2·47	4·76	5·66	1·53	33·28
,,	,,	6	Fort Augustus (S. Benedict's)	3·43	1·20	3·20	1·57	1·08	3·03	1·83	4·47	5·02	7·15	8·46	3·14	43·58
,,	,,	7	Loch Quoich (Glenquoich)	8·73	3·00	4·88	5·68	2·97	6·00	3·03	9·13	15·75	19·18	27·41	8·44	114·20
,,	,,	9	Drumnadrochit	4·85	1·14	2·32	2·63	1·69	2·70	1·25	4·96	2·89	5·69	4·98	2·55	37·65
,,	,,	13	Arisaig House	4·42	1·68	2·64	3·21	3·87	3·21	2·03	5·62	6·85	13·32	13·60	4·32	64·77
,,	,,	17	Fort William (Atholl Bank)	4·08	1·68	3·71	2·53	1·98	4·18	2·04	6·11	9·06	12·97	14·51	5·45	68·30
,,	,,	18	Skye (Kyleakin)	2·08	1·04	2·13	2·58	3·19	2·83	1·34	3·31	5·62	10·55	5·73	3·67	44·07
,,	,,	18	,, (Dunvegan)	4·17	1·79	3·54	2·36	3·97	3·95	1·88	5·54	9·31	15·72	11·16	4·80	68·19
,,	,,	19	Barra (Castle Bay)	2·69	1·40	1·76	1·77	3·32	1·71	·87	3·16	2·39	6·85	4·27	2·46	32·65
,,	,,	19	South Uist (Ushenish)	3·62	1·26	3·69	1·67	3·19	2·31	1·78	4·19	3·39	5·98	10·71	3·92	45·71
,,	Ross and Cromarty	4	Alness (Ardross Castle)	3·27	1·08	2·08	2·59	3·07	2·45	1·70	6·28	2·61	5·92	6·19	2·86	40·10
,,	,, ,,	6	Ullapool (Inverpolly Ldg.)	3·38	2·14	3·05	3·38	·70	1·29	·93	3·72	4·28	7·25	8·05	3·00	41·17
,,	,, ,,	8	Loch Torridon (Bendamph)	6·87	2·42	5·48	6·45	2·10	4·40	1·93	6·21	8·78	17·29	16·16	7·10	85·19
,,	,, ,,	8	Poolewe (Inverewe Gdns.)	4·65	1·35	4·99	3·26	2·63	2·93	2·17	4·87	9·91	10·53	10·14	3·93	61·36
,,	,, ,,	9	Glencarron Lodge	7·51	1·99	5·50	5·35	1·10	4·39	3·33	7·85	8·93	13·81	19·13	7·10	85·99
,,	,, ,,	10	Stornoway	4·24	1·26	3·10	3·34	2·48	3·55	1·73	4·39	6·08	9·80	7·10	3·35	50·42
XIX.	Sutherland	2	Dunrobin Castle	3·49	·98	2·26	2·73	1·61	2·15	·92	4·09	2·80	6·84	6·04	2·19	36·10
,,	,,	4	Tongue Manse	5·08	1·61	2·20	3·67	1·61	3·40	2·01	4·11	4·59	7·75	7·42	3·07	46·52
,,	,,	4	Melvich Schoolhouse	4·45	1·07	1·55	2·73	·99	3·09	1·74	1·97	4·30	6·90	7·66	3·26	39·71
,,	,,	5	Loch More (Achfary)	10·41	2·99	5·46	8·62	1·50	4·08	1·53	7·31	11·89	14·65	16·32	5·93	90·69
,,	Caithness	1	Berriedale (Langwell)	4·92	1·32	2·48	2·64	1·11	4·57	1·04	3·96	3·09	6·76	5·38	2·49	39·76
,,	,,	3	Thurso (Buckies)	4·61	1·71	3·53	3·87	2·74	4·98	·96	3·38	4·16	7·37	8·18	3·04	48·53
Scotland.	**Mean of 79 stations**			**3·42**	**1·30**	**2·77**	**2·62**	**2·86**	**2·82**	**1·81**	**5·53**	**4·02**	**8·20**	**7·66**	**3·17**	**46·18**

IRELAND.

Div.	County.		Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XX.	Cork	6	Castletownshend (Seafield)	2·95	2·77	2·35	1·05	3·02	2·42	3·21	6·08	1·90	5·07	2·08	2·32	35·22
,,	,,	6	Clonakilty (Shannon Vale Ho.)	3·20	2·14	2·58	·88	3·67	2·85	3·79	7·01	1·37	3·93	1·23	2·74	35·39
,,	,,	6	Dunmanway (The Rectory)	5·22	2·72	3·29	1·14	4·50	2·63	4·15	9·15	2·15	6·99	2·16	4·00	48·10
,,	,,	7	Midleton (Ballynacurra)	3·79	1·68	3·21	·83	4·12	1·79	2·29	7·12	·95	3·00	1·07	2·56	32·41
,,	,,	9	Mallow (Summer Hill)	3·27	1·44	3·40	1·23	3·49	1·36	1·90	7·54	1·03	4·73	1·89	3·03	34·31
,,	,,	9	Mitchelstown Castle	2·56	1·92	4·06	1·67	4·58	1·20	1·94	8·12	1·71	4·21	2·30	2·53	36·80
,,	Kerry	3	Killarney (District Asylum)	3·15	1·61	3·06	2·23	2·92	2·77	3·21	11·36	1·52	7·61	2·17	3·96	45·57
,,	,,	4	Darrynane Abbey	3·83	3·25	3·78	1·75	2·05	2·91	3·26	7·36	1·88	7·75	3·57	4·30	45·69
,,	,,	4	Kenmare (Dromore)	5·67	1·22	2·46	1·58	4·67	2·70	4·66	10·05	2·86	10·21	4·05	3·51	53·64
,,	Waterford	1	Lismore Castle	3·07	2·15	4·20	1·46	4·62	2·31	2·47	9·13	1·49	4·27	2·69	2·25	40·11
,,	,,	3	Waterford (Brook Lodge)	2·59	1·45	3·27	1·58	3·46	1·76	2·60	7·95	1·81	2·82	2·20	2·39	33·88
,,	Tipperary	1	Nenagh (Traverston)	1·36	1·49	3·88	1·61	4·06	2·27	2·36	8·48	1·57	6·09	2·95	2·26	38·38
,,	,,	3	Clonmel (Bruce Villa)	3·35	1·22	4·90	1·72	3·35	1·24	2·09	7·34	1·37	2·90	1·60	2·16	33·24
,,	,,	3	Cashel (Ballinamona)	1·08	1·41	2·89	1·52	2·69	1·61	1·46	7·29	1·07	3·84	2·24	2·33	29·43
,,	,,	4	Roscrea (Timoney Park)	·86	1·80	3·16	1·24	2·76	1·77	2·30	8·88	1·40	4·53	2·59	1·18	32·47
,,	Limerick	2	Abbeyfeale (Springmount)	2·54	1·93	2·34	1·75	1·98	1·63	1·67	10·92	1·56	6·92	3·56	3·10	39·90
,,	Clare	2	Ennistymon House	2·07	1·70	3·05	1·69	2·30	2·84	2·26	8·28	3·24	7·11	4·60	2·69	41·83
,,	,,	3	Derravoher [Limerick]	1·37	1·67	2·25	1·71	2·99	1·90	1·54	7·78	1·35	5·75	2·72	1·83	32·86
,,	,,	3	Killadysert (Paradise Hill)	1·45	1·89	2·30	1·36	2·91	2·40	1·61	9·18	2·55	7·17	4·23	2·46	39·51
,,	,,	3	Newmarket-on-Fergus (Carrigoran)	1·33	1·81	2·68	1·41	3·05	2·27	1·98	8·74	1·78	6·29	3·10	1·87	36·31
,,	,,	3	Mountshannon (Woodpark)	1·86	2·15	2·41	3·02	2·52	1·36	2·59	9·63	1·93	6·31	4·12	2·52	40·42
XXI.	Wexford	2	Fethard-on-Sea	1·88	1·31	2·48	1·59	2·90	1·83	2·57	7·42	1·75	2·15	1·89	1·97	29·74
,,	,,	3	Enniscorthy (Ballyhyland)	3·43	1·58	4·14	1·30	3·43	2·36	2·14	8·52	1·94	3·58	3·14	2·71	38·27
,,	,,	4	Gorey (Courtown House)	1·84	1·07	2·60	1·00	3·62	2·37	2·63	8·87	1·51	2·57	2·12	2·77	32·97
,,	Kilkenny	2	Kilkenny (Lavistown Ho.)	1·13	1·38	3·27	·91	2·78	1·49	1·33	8·73	1·46	2·18	1·95	1·39	28·00
,,	Wicklow	3	Rathdrum (Avondale)	2·09	·38	3·73	1·06	3·73	2·12	1·76	9·21	1·96	4·14	2·78	2·93	35·89
,,	,,	4	Greystones (Coolagad)	1·41	1·27	2·89	1·06	3·88	1·90	1·36	8·72	1·42	2·96	2·18	2·84	31·89
,,	Carlow	2	Hacketstown Rectory	2·25	1·99	4·61	1·28	2·47	1·58	1·14	10·28	2·27	3·25	3·03	2·37	36·52
,,	Queen's County	2	Abbey Leix (Blandsfort)	1·31	1·62	4·18	1·31	2·91	1·83	1·47	9·33	2·32	3·15	2·43	2·05	33·91
,,	King's County	1	Ballycumber (Moorock Lodge)	1·19	2·24	2·49	1·55	2·54	1·93	2·57	7·86	2·27	4·66	3·01	1·82	34·13
,,	Kildare	1	Monasterevan (Moore Abbey)	1·23	1·93	2·54	1·21	2·93	2·19	1·72	8·98	1·25	3·78	2·79	1·62	32·17
,,	,,	2	Straffan House	1·39	1·73	1·81	1·16	1·55	2·67	1·99	7·33	2·04	4·03	2·49	2·23	30·42
,,	Dublin	3	Balbriggan (Ardgillan)	1·72	1·82	2·54	1·47	3·31	1·11	2·55	6·79	1·26	3·21	2·23	2·33	30·34
,,	Meath	3	Mullacroghan [Drogheda]	1·23	1·81	2·55	1·28	2·86	1·40	2·16	5·61	1·52	3·51	2·37	2·11	28·41
,,	,,	4	Athboy (Frankville)	1·30	2·02	1·99	1·56	2·18	1·71	4·37	7·56	1·79	5·65	3·45	2·47	36·05

IRELAND—(*continued*).

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Westmeath 1	Mullingar (Belvedere)	1·60	2·36	2·22	1·69	2·24	2·09	3·40	7·17	2·37	6·02	4·38	2·45	37·99
,,	,, 1	Castlepollard (Pakenham Hall)	1·17	2·48	1·92	2·29	1·45	2·98	3·00	6·75	2·42	5·28	3·67	2·42	35·83
,,	Louth 3	Greenore	2·42	2·52	2·25	1·59	3·67	1·42	2·53	6·51	1·92	3·64	2·83	2·14	33·44
,,	Longford 2	Ballymahon (New Castle)	2·00	1·78	2·67	2·15	2·81	2·45	3·62	7·63	2·38	5·70	3·22	2·13	38·54
,,	,, 2	Castle Forbes Gardens	1·64	1·72	2·83	1·94	2·93	1·99	3·50	7·23	2·86	4·63	4·02	2·00	37·29
XXII.	Galway 3	Ballinahinch Castle	4·81	3·48	4·56	2·55	3·65	4·25	3·59	9·92	5·07	10·85	7·22	5·06	65·01
,,	,, 3	Tuam (Gardenfield)	1·35	2·72	2·77	2·08	2·38	4·21	2·45	7·37	3·04	7·29	3·33	4·14	43·13
,,	,, 4	Woodlawn	2·13	1·60	2·39	1·62	3·41	1·71	3·05	8·72	3·29	5·84	3·30	1·96	39·02
,,	Roscommon 4	Strokestown (Castlenode)	1·67	1·44	3·50	2·06	3·04	1·91	3·16	6·86	2·37	4·66	4·52	1·77	36·96
,,	Mayo 2	Crossmolina (Enniscoe)	4·33	1·92	4·69	3·80	3·10	3·59	2·41	7·57	3·68	8·70	6·72	3·63	54·14
,,	,, 4	Westport (St. Helens)	3·64	·99	3·74	2·56	2·52	2·53	1·50	6·84	3·73	8·93	5·19	2·67	44·84
,,	,, 5	Aasleagh House	6·52	1·86	7·61	5·86	4·39	5·47	3·72	14·83	7·48	17·28	10·27	6·65	91·94
,,	,, 6	Cong (The Glebe)	2·87	1·89	3·15	2·64	2·88	3·22	3·32	9·33	3·92	8·16	5·44	3·81	50·63
,,	,, 8	Dugort (Slievemore Hotel)	5·54	2·38	3·28	4·10	3·83	4·95	2·52	8·63	6·58	13·40	8·86	4·22	68·29
,,	Sligo 2	Collooney (Markree Obs.)	3·03	1·70	3·62	2·69	3·17	2·53	3·20	6·97	3·59	9·26	8·60	3·02	51·38
XXIII.	Cavan 1	Killeshandra (DromMullac)	1·78	2·51	2·28	1·67	2·17	3·06	3·62	5·75	2·13	6·71	4·94	1·69	38·31
,,	Fermanagh 1	Enniskillen (Portora)	1·86	2·12	2·58	2·09	2·06	2·20	2·80	6·70	2·57	7·71	5·83	2·38	40·90
,,	,, 1	Belleek	2·64	2·03	3·00	2·52	2·88	2·54	1·97	7·53	4·04	9·28	7·82	3·01	49·26
,,	Monaghan 1	Dartrey [Cootehill]	1·81	2·76	3·54	2·57	2·20	2·39	3·47	6·92	2·22	5·25	5·10	2·15	40·38
,,	Armagh 5	Armagh Observatory	1·65	2·56	2·72	2·64	3·00	3·07	2·50	4·58	1·90	4·21	3·85	1·94	34·62
,,	Down 2	Seaforde	2·01	2·36	2·53	2·04	5·08	1·26	2·25	7·28	1·98	4·48	3·56	2·96	37·79
,,	Antrim 1	Belfast (Queen's University)	2·01	2·16	3·23	2·35	4·38	1·88	2·08	3·82	1·74	5·29	4·66	2·40	36·00
,,	,, 2	Glenarm Castle	2·90	1·73	3·50	2·75	5·33	2·75	2·80	5·04	2·03	7·73	7·20	3·87	47·63
,,	,, 4	Ballymoney (Balnamore)	2·91	1·59	2·04	4·19	3·28	2·62	2·15	5·03	1·59	6·84	6·12	4·50	42·86
,,	,, 5	Ballymena (Harryville)	3·17	2·10	2·94	4·88	4·47	2·50	3·60	5·08	2·36	6·27	5·76	4·49	47·62
,,	Londonderry 5	Limavady (Drenagh)	2·61	2·28	2·94	2·96	2·72	2·85	2·63	6·62	1·46	6·57	6·39	3·35	43·38
,,	Tyrone 3	Omagh (Edenfel)	2·51	2·20	3·41	2·47	2·27	2·58	1·90	5·60	3·83	8·36	7·17	3·23	45·53
,,	,, 3	Sion Mills (Sion House)	2·55	2·15	2·78	2·87	2·74	2·17	1·49	6·33	2·24	7·73	5·70	3·58	42·33
,,	Donegal 3	Milford (The Manse)	3·17	2·83	3·41	4·04	2·86	1·96	1·13	5·52	1·83	8·93	5·88	4·32	45·88
,,	,, 3	Dunfanaghy (Horn Head)	3·05	2·46	3·44	3·76	3·85	3·02	1·89	5·72	3·02	6·66	7·40	4·98	49·25
,,	,, 5	Killybegs	5·48	1·98	3·96	3·98	4·52	3·99	2·88	8·60	5·57	11·26	11·68	5·31	69·21
Ireland.	**Mean of 66 stations**		**2·53**	**1·94**	**3·14**	**2·08**	**3·18**	**2·37**	**2·53**	**7·74**	**2·37**	**6·05**	**4·15**	**2·88**	**40·96**
BRITISH	**ISLES. Mean of 299 stations**		**2·61**	**1·42**	**2·75**	**2·25**	**2·68**	**2·61**	**2·30**	**6·65**	**2·72**	**6·20**	**4·23**	**2·34**	**38·76**

SEASONAL RAINFALL, 1916-1917.

The data prepared for the study of the monthly percentage maps given in the previous section provide a means of comparing the rainfall of the summer and winter half-years of 1916-1917, and of the "seasonal year" from October, 1916, to September, 1917, with the average, and the records have accordingly been grouped for this purpose in the table on pp. [102]-[105].

The winter half-year, from October, 1916, to March, 1917, was wet generally on the east coast of Great Britain, south of Aberdeen, and also in Ireland, whilst the western coasts of Great Britain, including Wales, were dry. Areas with rather less than the average extended eastward as far as the coast to the north of Aberdeen, and as far as western Lincolnshire in England, but deficiencies of more than 10 per cent. occurred only in the west of Scotland, in Wales and North Devon, whilst two patches in central and northern Wales appear to have had more than 20 per cent. less than the average. The wet areas were grouped round three centres, situated respectively in Forfarshire, in Hampshire and Sussex, and in the east of Ireland. In the two former, excesses of more than 20 per cent. occurred at a few stations, but in Ireland the fall reached 48 per cent. above the average at Dublin, where the area of excessive rainfall contrasted strongly with that of deficient fall on the Welsh side of the Irish Sea, the general tendency being that eastern stations had the greatest excess of rainfall and westerly stations a very small excess or considerable deficiency.

The general values show an excess of 4 per cent. for England and deficits of 7 per cent. for Wales, and 1 per cent. for Scotland. Ireland had an excess in general of 14 per cent., and for the British Isles as a whole there was an excess of 4 per cent.

The distribution of rainfall relatively to the average in the summer half-year, April to September, was dominated by the great rains of June, July and August in the south. There were areas of less marked excess in the north-west of Scotland, the south of Scotland, and north of England, but less than the average fell in all parts of central Scotland, with a deficiency of more than 10 per cent. in a well-marked belt extending from Mull to Aberdeen. The north Midlands of England from Leicestershire to the north of Lancashire and Yorkshire, also had less than the average, and a central area in the southern Pennines had a deficiency of more than 20 per cent. In the great wet area in the south an excess of more than 20 per cent. extended unbroken from Wexford to Suffolk, and there appear to have been three centres of pronounced wetness, respectively in north-west Wales, Somerset and round London. In all these the fall reached 40 per cent. above the average and in the two latter 50 per cent., the largest excess observed being 61 per cent. at Edenbridge, in West Kent.

The general rainfall for Wales was 22 per cent. above the average, that for England 13 per cent., and for Ireland 9 per cent., whilst in Scotland there was a deficiency of 3 per cent. For the British Isles as a whole the rainfall of the summer half-year exceeded the average by 8 per cent.

The seasonal year, combining the rainfall of the two six-monthly periods just described, had less than the average generally in the north and west of Scotland, but the deficiency was more than 10 per cent. only over a small part of Perthshire and of the west coast. Part of the north of England and of Wales also had rather less than the average with a deficiency of more than 10 per cent. at Llandudno and Sheffield. The whole of Ireland, the south of England and Wales and practically the whole of the east coast of Great Britain south of Aberdeen, had a rainfall above the average, and the excess was greater than 20 per cent in two clearly defined areas, one situated in the east of Ireland and the other extending from the Bristol Channel to the Thames Estuary. In the former of these two areas the excess rose to 33 per cent. at Dublin, where the rainfall of each of the half-yearly periods was well above the average. In the south of England more than 30 per cent. occurred in two places, one in the east of Somerset and the other including most of Sussex, Surrey and Middlesex and parts of Hertfordshire, Essex and Kent. The greatest excess was 40 per cent. around Edenbridge.

The general rainfall for the seasonal year exceeded the average by 11 per cent. in Ireland, by 9 per cent. in England and by 6 per cent. in Wales, whilst Scotland had a deficiency of 2 per cent. For the British Isles as a whole there was an excess of 6 per cent.

Seasonal Rainfall, 1916–1917, *in Relation to the Average*, 1875–1909.

Div.	Stations.	Winter Six Months, October, 1916—March, 1917.				Summer Six Months, April — September, 1917				12 Months, Oct., 1916—Sept., 1917.
		Rainfall.	Aver-age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver-age.	Difference from Average.	Per cent. of Aver.	Per cent. of Average.
		in.	in.	in.		in.	in.	in.		
I.	St. Pancras, Camden Square	14·44	12·38	+ 2·06	117	19·90	12·73	+ 7·17	156	137
II.	Tenterden, View Tower	18·02	15·31	+ 2·71	118	16·55	12·33	+ 4·22	134	125
,,	Edenbridge, Falconhurst	20·58	16·75	+ 3·83	123	21·70	13·51	+ 8·19	161	140
,,	Patching	21·39	17·17	+ 4·22	125	17·74	13·31	+ 4·43	133	128
,,	Fordingbridge, Oaklands	20·84	17·83	+ 3·01	117	16·84	13·23	+ 3·61	127	121
,,	Sherborne St. John	16·27	15·86	+ ·41	103	16·54	13·31	+ 3·23	124	112
III.	Royston, Therfield	12·31	12·02	+ ·29	102	19·43	13·54	+ 5·89	144	124
,,	Oxford, Magdalen College	13·26	11·98	+ 1·28	111	14·03	12·60	+ 1·43	111	111
,,	Wellingborough, Swanspool	12·76	12·27	+ ·49	104	16·27	12·93	+ 3·34	126	115
,,	March	10·92	10·71	+ ·21	102	13·26	12·32	+ ·94	108	105
IV.	Shoeburyness	11·00	9·82	+ 1·18	112	12·21	9·46	+ 2·75	129	120
,,	Bury St. Edmunds, Westley	13·83	12·26	+ 1·57	113	13·56	13·14	+ ·42	103	108
,,	Geldeston	13·93	11·91	+ 2·02	117	14·78	11·82	+ 2·96	125	121
,,	Holkham Hall	12·29	11·46	+ ·83	107	11·55	12·10	— ·55	96	101
V.	Bishops Cannings	18·59	15·70	+ 2·89	118	18·46	15·17	+ 3·29	122	120
,,	Evershot, Melbury House	25·30	22·27	+ 3·03	114	18·47	15·93	+ 2·54	116	115
,,	Ashburton, Druid House	30·93	32·16	— 1·23	96	23·15	19·45	+ 3·70	119	105
,,	Barnstaple	18·00	21·30	— 3·30	85	21·02	15·84	+ 5·18	133	105
,,	Falmouth Observatory	30·04	26·14	+ 3·90	115	16·49	16·55	— ·06	100	109
,,	Altarnon Sanctuary	35·47	35·83	— ·36	99	26·81	23·14	+ 3·67	116	106
,,	Litton, Sherborne Res.	24·88	21·38	+ 3·50	116	28·88	18·25	+10·63	158	136
VI.	Stroud, Field Place	17·67	15·15	+ 2·52	117	18·08	14·66	+ 3·42	123	120
,,	Church Stretton, Wolstaston	15·02	16·57	— 1·55	91	18·07	15·84	+ 2·23	114	102
,,	Malvern, Church Street	14·86	14·14	+ ·72	105	18·06	14·43	+ 3·63	125	115
,,	Ryton-on-Dunsmore	12·73	12·93	— ·20	98	13·78	13·63	+ ·15	101	100
VII.	Belvoir Castle	11·05	12·54	— 1·49	88	13·38	13·51	— ·13	99	94
,,	Revesby	14·20	12·59	+ 1·61	113	14·79	12·56	+ 2·23	118	115
,,	Lincoln, Skellingthorpe Hall	11·21	11·34	— ·13	99	12·12	12·36	— ·24	98	98
,,	Mickleover Manor	15·02	12·75	+ 2·27	118	13·40	13·90	— ·50	96	107
VIII.	Middlewich, Bostock Hall	13·65	14·63	— ·98	93	15·59	15·33	+ ·26	102	98

Seasonal Rainfall, 1916–1917, *in Relation to the Average*, 1875–1909—(*continued*).

Div.	Stations.	Winter Six Months, October, 1916—March, 1917.				Summer Six Months, April — September, 1917.				12 Months, Oct., 1916—Sept., 1917.
		Rainfall.	Aver age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver-age.	Difference from Average.	Per cent. of Aver.	Per cent. of Average.
		in.	in.	in.		in.	in.	in.		
VIII.	Stonyhurst College	25·97	24·66	+ 1·31	105	18·39	22·13	— 3·74	83	95
,,	Southport, Hesketh Park	17·26	16·73	+ ·53	103	15·72	15·97	— ·25	98	101
IX.	Sheffield W. W., Redmires Res.	21·38	22·20	— ·82	96	15·01	19·11	— 4·10	79	88
,,	Arncliffe Vicarage	33·27	35·66	— 2·39	93	26·36	25·83	+ ·53	102	97
,,	Wetherby, Ribston Hall	12·68	13·31	— ·63	95	13·14	13·56	— ·42	97	96
,,	Hull, Pearson Park	14·08	13·17	+ ·91	107	12·58	13·25	— ·67	95	101
,,	Scarborough, Osgodby	16·45	14·17	+ 2·28	116	11·93	12·23	— ·30	98	108
X.	Darlington, Cleveland Parade	13·42	12·59	+ ·83	107	11·88	13·18	— 1·30	90	98
,,	Newcastle-on-Tyne, Town Moor.	16·56	13·92	+ 2·64	119	15·73	14·02	+ 1·71	112	116
,,	Howick Hall	16·28	14·91	+ 1·37	109	13·86	13·87	— ·01	100	105
,,	Carlisle, Spital Cemetery	16·66	15·62	+ 1·04	107	15·93	16·55	— ·62	96	101
,,	Borrowdale, Seathwaite	69·01	76·47	— 7·46	90	60·83	53·01	+ 7·82	115	100
,,	Appleby, Castle Bank	17·87	18·62	— ·75	96	19·31	15·79	+ 3·52	122	108
XI.	Abergavenny, Larchfield	21·54	20·77	+ ·77	104	20·03	16·34	+ 3·69	123	112
,,	Ystalyfera, Wern School	36·66	36·79	— ·13	100	36·75	27·25	+ 9·50	135	115
,,	Cardiff, Ely	21·91	23·26	— 1·35	94	21·42	19·02	+ 2·40	113	102
,,	Haverfordwest	25·52	27·12	— 1·60	94	24·19	19·69	+ 4·50	123	106
,,	Aberystwyth, Gogerddan	23·65	24·58	— ·93	96	27·59	20·88	+ 6·71	132	113
,,	Birmingham W.W., Tyrmynydd	29·16	37·20	— 8·04	78	29·24	24·86	+ 4·38	118	94
,,	Wrexham, Pack Saddle Reservoir	18·65	17·24	+ 1·41	108	17·27	15·45	+ 1·82	112	110
,,	Llandudno	12·78	16·56	— 3·78	77	13·21	13·80	— ·59	96	86
,,	Holyhead	19·02	19·96	— ·94	95	21·38	15·06	+ 6·32	142	115
,,	Douglas	24·42	23·40	+ 1·02	104	19·37	18·15	+ 1·22	107	105
XII.	Auchencairn, Torr House	26·44	25·53	+ ·91	104	20·88	21·27	— ·39	98	101
,,	Drumlanrig Castle	27·69	25·17	+ 2·52	110	19·61	18·54	+ 1·07	106	108
,,	Hawick, Branxholme	19·11	18·49	+ ·62	103	17·78	15·31	+ 2·47	116	109
XIII.	North Esk Reservoir	24·45	21·46	+ 2·99	114	18·60	18·29	+ ·31	102	108
,,	Marchmont House	20·37	17·06	+ 3·31	119	17·97	16·70	+ 1·27	108	114
XIV.	Airdrie, Hillend Reservoir	20·14	19·99	+ ·15	101	17·37	17·73	— ·36	98	99

Seasonal Rainfall, 1916-1917, *in Relation to the Average,* 1875-1909—(*continued.*)

Div.	Stations	Winter Six Months, October, 1916—March, 1917.				Summer Six Months, April — September, 1917.				12 Months, Oct., 1916—Sept., 1917.
		Rainfall.	Average.	Difference from Average.	Per cent. of Aver.	Rainfall.	Average.	Difference from Average.	Per cent. of Aver.	Per cent. of Average.
		in	in.	in.		in.	in.	in.		
XIV.	Girvan, Pinmore	25·27	28·37	— 3·10	89	19·57	21·40	— 1·83	91	90
,,	Loch Thom	35·96	36·37	— ·41	99	24·91	28·10	— 3·19	89	94
XV.	Lochgilphead, Poltalloch	29·34	28·71	+ ·63	102	23·06	22·55	+ ·51	102	102
,,	Islay, Eallabus	27·76	28·38	— ·62	98	18·69	20·41	— 1·72	92	95
,,	Mull, Quinish	29·20	32·98	— 3·78	89	19·27	23·59	— 4·32	82	86
XVI.	Loch Leven Sluice	19·65	19·86	— ·21	99	14·03	16·68	— 2·65	84	92
,,	Loch Dhu	41·45	47·55	— 6·10	87	28·65	31·03	— 2·38	92	89
,,	Blair Atholl	20·08	17·91	+ 2·17	112	12·72	14·44	— 1·72	88	101
,,	Dundee, Eastern Necropolis	16·82	14·08	+ 2·74	119	13·98	14·56	— ·58	96	108
XVII.	Fettercairn, The Burn	22·99	18·36	+ 4·63	125	14·40	16·39	— 1·99	88	108
,,	Braemar	22·08	19·11	+ 2·97	116	14·91	15·82	— ·91	94	106
,,	Aberdeen, Cranford House	17·85	17·32	+ ·53	103	13·37	15·41	— 2·04	87	95
,,	Gordon Castle	13·88	15·25	— 1·37	91	14·37	15·09	— ·72	95	93
XVIII.	Glenquoich	67·45	68·75	— 1·30	98	42·56	40·59	+ 1·97	105	101
,,	Drumnadrochit	21·86	20·27	+ 1·59	108	16·13	15·86	+ ·27	102	105
,,	Inverness High School	14·53	14·18	+ ·35	102	14·96	12·96	+ 2·00	115	109
,,	Fort William, Atholl Bank	43·58	46·72	— 3·14	93	25·90	29·08	— 3·18	89	92
,,	Loch Torridon, Bendamph	44·73	51·38	— 6·65	87	29·87	32·55	— 2·68	92	89
,,	Stornoway	25·14	30·03	— 4·89	84	21·57	18·37	+ 3·20	117	97
XIX.	Dunrobin Castle	16·94	17·46	— ·52	97	14·30	14·44	— ·14	99	98
,,	Wick	16·21	16·15	+ ·06	100	13·22	13·73	— ·51	96	98
XX.	Glanmire, Lota Lodge	29·82	25·64	+ 4·18	116	18·00	18·44	— ·44	98	108
,,	Killarney, District Asylum	37·92	33·49	+ 4·43	113	24·01	21·32	+ 2·69	113	113
,,	Valencia, Glanleam	35·62	32·08	+ 3·54	111	24·34	23·93	+ ·41	102	107
,,	Waterford, Brook Lodge	24·56	21·72	+ 2·84	113	19·16	17·85	+ 1·31	107	110
,,	Nenagh, Castle Lough	22·26	21·46	+ ·80	104	19·64	17·97	+ 1·67	109	106
,,	Ennistymon House	29·32	25·03	+ 4·29	117	20·61	21·49	— ·88	96	107
XXI.	Gorey, Courtown House	20·77	18·80	+ 1·97	110	20·00	16·19	+ 3·81	124	117
,,	Abbey Leix, Blandsfort	22·23	18·51	+ 3·72	120	19·17	17·41	+ 1·76	110	115

Seasonal Rainfall, 1916–1917, *in Relation to the Average*, 1875–1909—(*continued*).

Div.	Stations.	Winter Six Months, October, 1916—March, 1917. Rainfall.	Aver-age.	Difference from Average.	Per cent. of Aver.	Summer Six Months, April — September, 1917. Rainfall.	Aver-age.	Difference from Average.	Per cent. of Aver.	12 Months, Oct., 1916—Sept., 1917. Per cent. of Average.
		in.	in.	in.		in.	in.	in.		
XXI.	Dublin, Fitz William Square......	20·43	13·84	+ 6·59	148	16·48	13·84	+ 2·64	119	133
,,	Mullingar, Belvedere	21·67	18·37	+ 3·30	118	18·96	17·78	+ 1·18	107	112
,,	Greenore	19·93	16·23	+ 3·70	123	17·64	16·10	+ 1·54	110	116
XXII.	Tuam, Gardenfield.....................	24·78	23·27	+ 1·51	106	21·53	19·42	+ 2·11	111	108
,,	Crossmolina, Enniscoe..............	35·17	31·04	+ 4·13	113	24·15	21·83	+ 2·32	111	112
,,	Cong, The Glebe	31·55	27·33	+ 4·22	115	25·31	21·57	+ 3·74	117	116
,,	Markree Observatory	29·21	22·97	+ 6·24	127	22·15	19·74	+ 2·41	112	120
XXIII.	Belturbet, Cloverhill	20·69	17·24	+ 3·45	120	17·19	16·50	+ ·69	104	112
,,	Armagh Observatory	18·30	15·52	+ 2·78	118	17·69	16·36	+ 1·33	108	113
,,	Seaforde	21·45	20·34	+ 1·11	105	19·89	18·57	+ 1·32	107	106
,,	Belfast, Queen's University	19·36	17·40	+ 1·96	111	16·24	16·41	— ·17	99	105
,,	Ballymena, Harryville...............	22·27	21·49	+ ·78	104	22·89	19·35	+ 3·54	118	111
,,	Limavady, Drenagh..................	21·77	19·93	+ 1·84	109	19·24	17·53	+ 1·71	110	109
,,	Omagh, Edenfel........................	23·26	20·45	+ 2·81	114	18·65	18·93	— ·28	99	106
,,	Killybegs............................ ...	34·87	34·00	+ ·87	103	29·54	26·60	+ 2·94	111	106
Means.	**England** (mean of 43 stations)	18·87	18·07	+ ·80	104	17·80	15·71	+ 2·09	113	109
	Wales (,, ,, 9 ,,)	23·21	24·83	— 1·62	93	23·45	19·15	+ 4·30	122	106
	Scotland (,, ,, 27 ,,)	26·33	26·55	— ·22	99	19·36	20·03	— ·67	97	98
	Ireland (,, ,, 23 ,,)	25·53	22·44	+ 3·09	114	20·54	18·92	+ 1·62	109	111
	British Isles(,, ,,103 ,,)	22·75	21·91	+ ·84	104	19·33	17·88	+ 1·45	108	106

THE RELATION OF THE TOTAL FALL OF RAIN IN 1917 TO THE AVERAGE.

FOLLOWING the usual method we compare the rainfall of 1917 with the average of thirty-five years at as many stations with long records as exist in an approximately equidistant distribution over the British Isles. The number so available on this occasion is 210, and the data are set out in the Table at the end of this article. The average rainfall for 1900-1909, the last completed decade, is quoted for the benefit of Observers who have only short records at their stations ; but the average for the thirty-five years, 1875-1909, is that which represents the normal rainfall most closely and with it accordingly the rainfall of 1917 is compared As the selected stations are practically equidistant and representative of the districts they cover, the mean of all the values for each large division and of the country as a whole yields a close approximation to the general rainfall of the region in question.

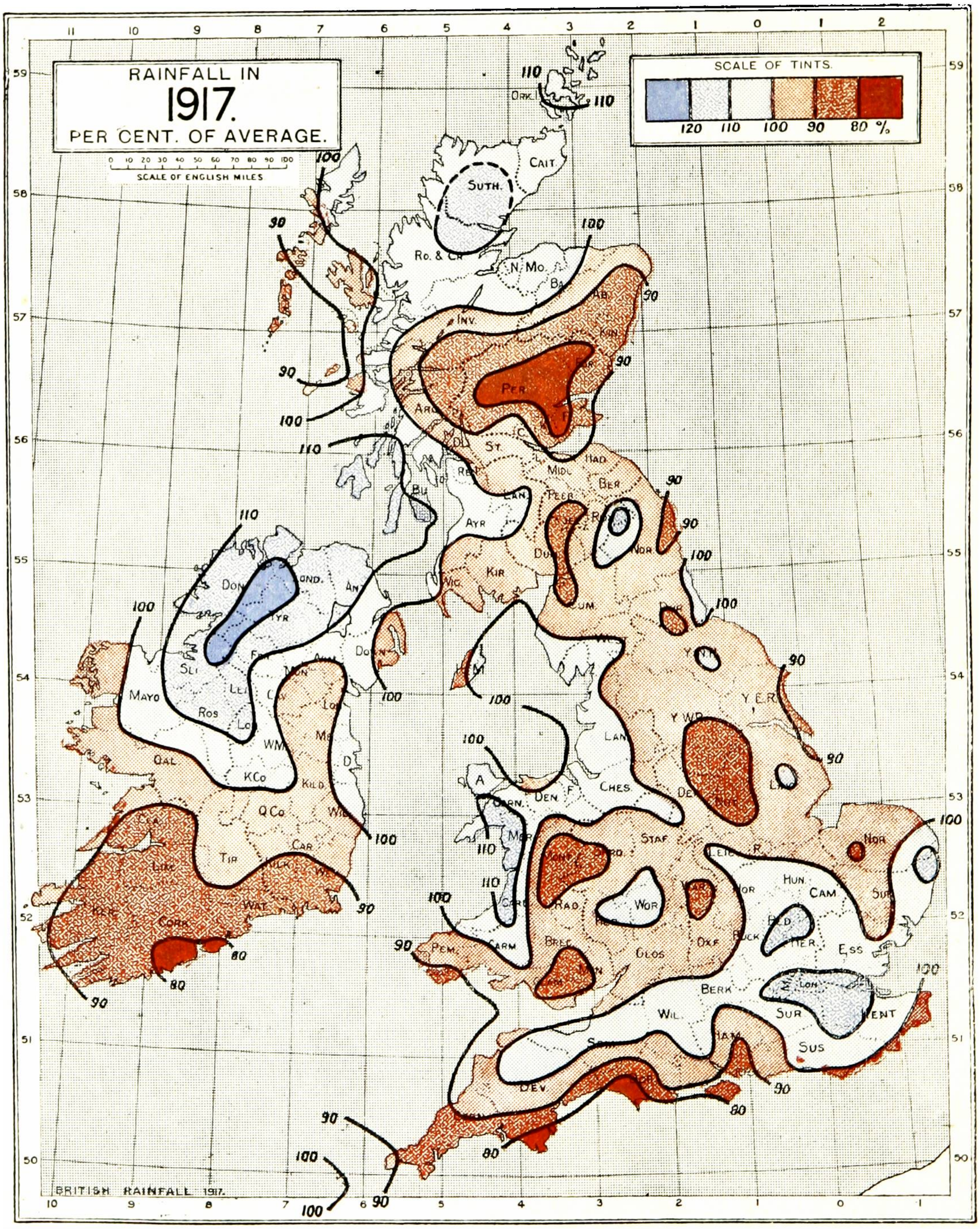
ABSTRACT.

COUNTRIES.	No. of Records utilized.	Average. 10 years 1900-09.	Average. 35 years 1875-1909.	1917.	Diff. from Average 1875-1909. Amount.	Per cent.
		in.	in.	in.	in.	
England	90	31·82	33·03	30·89	1·14	— 3
Wales	18	46·13	46·68	44·96	1·72	— 4
England and Wales	108	34·21	35·30	34·06	1·24	— 4
Isle of Man	1	41·35	41·55	42·14	·59	+ 1
Scotland	57	46·12	45·14	43·94	1·20	— 3
Ireland	44	40·53	40·38	39·67	·71	— 2
British Isles	210	38·80	39·07	37·96	1·11	— 3

The Abstract shows that except the Isle of Man, every large division of the British Isles had distinctly less than its average rainfall in 1917, the difference being greatest, 4 per cent., in Wales and least, 2 per cent., in Ireland. The British Isles, as a whole, had a deficiency of 3 per cent.

The following Table compares the general rainfall of 1917 with that of the seven preceding years, and it shows that 1917 was the driest year of the eight for the British Isles, as a whole, and for Ireland and Wales. Indeed, for Wales, it was the only year of the eight in which the general rainfall was below the average, and for Ireland almost the only one, 1911

RELATION OF RAINFALL IN 1917 TO THE AVERAGE OF 1875-1909.


RAINFALL IN
1917.
PER CENT. OF AVERAGE.
0 10 20 30 40 50 60 70 80 90 100
SCALE OF ENGLISH MILES
SCALE OF TINTS
120 110 100 90 80 %
ORK.
CAIT.
SUTH.
RO. & CR.
N. MO.
BA.
AB.
KIN.
INV.
PER.
ARG.
ST.
MIDL.
HAD.
BER.
REN.
LAN.
PEEB.
ROX.
AYR.
DU.
WIG.
KIR.
CUM.
NOR.
DUR.
YOR.
Y.E.R.
Y.W.R.
LAN.
CHES.
DER.
LIN.
NOR.
SUF.
HUN.
CAM.
BED.
HER.
ESS.
LON.
BUCK.
OXF.
BERK.
SUR.
KENT.
SUS.
HAM.
WIL.
SO.
DEV.
GLOS.
WOR.
STAF.
LEIC.
SHRO.
RAD.
BREC.
MON.
CARM.
PEM.
CARD.
MER.
CARN.
DEN.
A.
MAN.
DON.
LOND.
ANT.
TYR.
DOWN.
SLI.
MAYO.
ROS.
LEI.
WM.
KCo.
GAL.
QCo.
KILD.
LOU.
D.
WI.
CAR.
TIP.
LIM.
CLA.
KER.
CORK.
WAT.
KILK.
BRITISH RAINFALL 1917.
59 58 57 56 55 54 53 52 51 50
11 10 9 8 7 6 5 4 3 2 1 0 1 2
110 100 90 80

The area coloured Red had rainfall below the average, that coloured Blue had rainfall above the average.

Comparison of the Total Rainfall 1910-1917 with the average 1875-1909.

Year.	England.	Wales.	Eng. and Wales.	Scotland.	Ireland.	British Isles.
1910	111	116	112	103	108	109
1911	94	101	96	101	99	98
1912	123	119	122	111	108	115
1913	96	109	98	96	107	99
1914	109	110	109	103	108	107
1915	110	105	109	92	102	102
1916	113	107	112	116	114	114
1917	97	96	96	97	98	97

having had a deficiency of 1 per cent. In England, 1911 and 1913 were slightly drier than 1917, and in Scotland 1913 and 1915 were a little drier. It will be noted that in England the mean excess of rainfall for the three years 1914-16 was 11 per cent. of the average, so that the drop to a deficiency of 3 per cent. in the fourth war-year is very marked.

But although all the large divisions were on the whole dry, an excess of rainfall over the average occurred at 78 out of the 210 stations, and, as usually happens, there were areas of excessive rainfall alternating with areas of very deficient rainfall. This is well shown in the coloured map, which is based on the 210 stations dealt with in the Table, supplemented by a good many additional stations, which enabled the lines to be drawn with greater detail. The map distinguishes by red tints the areas of deficient rainfall and by blue tints the areas of excessive rainfall for the year, the line separating the red from the blue running through points where the rainfall was exactly the average, and the depth of the tint increasing for each 10 per cent. of additional deviation from the average. It must, of course, be remembered that this map does not indicate the distribution of amount of rain for the year; but merely the distribution of the difference from the average fall whether that average fall be well over 100 inches, as at Seathwaite, or only 20 inches, as at Shoeburyness.

The map is rather complicated and in endeavouring to understand or even to describe the distribution of wet and dry areas one must be alive to the risk of purely fanciful interpretations. It is easy to see patterns in the red and blue splashes as one can see patterns in a geometrical wall-paper, and hence there is a risk of finding confirmation of any hypothesis which may dominate the mind of the investigator. On the other hand we cannot escape the conclusion that it is from maps such as these that light can be thrown on the order in which excessive or deficient rainfall occurs, and that this light focussed from the past can be projected so as to elucidate the future.

Looking first at the wet regions in 1917 we see that an excess of more than 10 per cent. was found in Scotland north of the Moray Firth; that there was more than the average rainfall along the west coast of Scotland and right through the north of Ireland. The north-west of Ireland was, indeed, the part of the United Kingdom which showed the greatest excess of rainfall, a strip of country from Loch Foyle to Donegal Bay having had more than 20 per cent. excess; the largest excess noted being 26 per cent., at Creggan Reservoir, Londonderry.

The wet area in the north of Ireland was continued into England and Wales by Dublin and Holyhead, a strip of the coast of central Wales having an excess of more than 10 per cent. More than the average fall was found crossing England from the Mersey estuary to the Thames estuary, though probably with a break near Burton-on-Trent, and in the south-east of England the excess rose to more than 10 per cent. in three areas, the largest stretching from Windsor to Tunbridge Wells. In part of the country covered by this wet area it is interesting to note that rainfall has been in excess of the average every year since 1909, a period of nine years, and this has not previously been found to be the case in any other part of the country. But for the unprecedented London thunderstorm of June 16th, and the equally unlikely event of the six wet days, July 29th-August 3rd, in Kent, it is likely that no wet area would have appeared in this part of the country. We may note, too, that the long spur of more than average rainfall, running west from the Thames to North Devon, was due entirely to the one day's rain of June 28th, the unprecedented character of which is shown in the frontispiece to this volume. Several small detached areas of blue appear on the map of England like severed links between the north-western and south-eastern wet regions. Of these the most remarkable is in Northumberland.

Large and remarkable as the districts with excessive rainfall were, dry areas were even more pronounced. The deep red of the east and centre of Scotland calls attention to the largest and intensest of the dry areas. There was a deficiency of more than 20 per cent. from Loch Leven, in Fife, to the Braes of Balquhidder on the north-west, and to Fettercairn on the north-east, the very heart of the district, which, in 1916, had an excess of more than 30 and in parts more than 40 per cent. From this great dry centre in Scotland deficient rainfall extended southward through the centre of England; reaching the east coast in Northumberland, and from Whitby to Cromer; reaching the west coast by the Solway and the Severn and, curling round the tongue of June 28th excess, spreading along the south coast to Worthing. Westward the dry area included the south and south-west of Ireland. A line of patches where the deficiency was more than 10 per cent. of the average rainfall ran from Scotland south along the east of England to Norfolk; and this line of minimum rainfall was crossed at right angles by another belt of more than 10 per cent. deficiencies from the coast of Yorkshire to the Severn. A curious isolated patch of excessive rainfall will be seen in Worcestershire surrounded by exceptionally dry areas. On the south coast of England and of Ireland the deficiency increased southward until it was more than 20 per cent. in Cork, the Start peninsula of south Devon, and the coast of Dorset.

In *British Rainfall, 1916*, we showed how the positions of the wet and dry areas on the map appear to have moved progressively or intensified in the locality last occupied, and we can trace some similarity between parts of the map for 1916 and that for 1917. But in most places 1917 shows a great and complete change. The wet areas in the north-west of Ireland and the south-east of England, are, indeed, repeated; but the great dry area in Scotland takes the place of the wet area of the previous year, and other very dry areas have appeared in the south of Ireland and England, where in 1916 there was only a slight diminution of wetness.

COMPARISON OF THE RAINFALL OF THE YEAR 1917 WITH THE AVERAGE OF THE PERIODS 1900-09 & 1875-1909.

ENGLAND.

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909.	
						Amount.	Per cent
			in.	in.	in.	in.	
I.	London 2	St. Pancras (Camden Square)	24·57	25·11	30·04	4·93	+ 20
II.	Surrey 6	Haslemere (Hazelhurst)	35·84	36·15	35·35	·80	— 2
,,	Kent 1	Tenterden (View Tower)	26·34	27·64	28·86	1·22	+ 4
,,	,, 2	Margate (Cliftonville)	21·02	23·33	22·91	·42	— 2
,,	,, 4	Edenbridge (Falconhurst)	31·06	30·26	35·52	5·26	+ 17
,,	Sussex 2	Patching	29·61	30·48	31·04	·56	+ 2
,,	,, 5	Hailsham Vicarage	30·02	30·48	31·28	·80	+ 3
,,	Hampshire 1	Ventnor (Flint Cottage)	27·95	28·97	23·56	5·41	— 19
,,	,, 8	Sherborne St. John	29·27	29·17	27·13	2·04	— 7
III.	Hertfordshire 2	Tring (Cowroast Lock)	28·73	28·89	32·22	3·33	+ 12
,,	,, 3	Royston (Therfield Rectory)	24·64	25·56	29·64	4·08	+ 16
,,	Buckinghamshire 4	Slough (Langley)	23·52	24·18	28·79	4·61	+ 19
,,	,, 5	Buckingham (Adstock Fields)	24·25	25·96	25·93	·03	— 0
,,	Oxfordshire 3	Oxford (Magdalen College)	23·31	24·58	23·67	·91	— 4
,,	Northampton 4	Wellingborough (Swanspool)	24·41	25·20	25·66	·46	+ 2
,,	Cambridgeshire 2	March	22·37	23·03	22·54	·49	— 2

ENGLAND—(*continued*).

DIV.	COUNTY and river-division.	STATION.	Average 1900-09	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909. Amount.	Per cent
			in.	in.	in.	in.	
IV.	Essex 3	Shoeburyness	18·69	19·28	20·90	1·62	+ 8
,,	,, 4	Chelmsford (High Street)	22·66	23·02	24·07	1·05	+ 5
,,	,, 5	Earls Colne (Chalkney Ho.)	22·83	23·43	22·80	·63	— 3
,,	Suffolk 5	Bury St. Edmunds (Westley)	24·11	25·40	25·25	·15	— 1
,,	Norfolk 1	Geldeston [Beccles]	22·74	23·73	26·63	2·90	+ 12
,,	,, 1	Cawston Rectory	25·29	26·91	25·21	1·70	— 6
,,	,, 3	Wells (Holkham Hall)	23·63	23·56	23·08	·48	— 2
,,	,, 4	Swaffham	24·61	26·74	23·71	3·03	— 11
V.	Wiltshire 3	Warminster (Rye Hill)	35·21	36·75	35·92	·83	— 2
,,	,, 4	Landford (Northlands)	30·04	30·11	31·97	1·86	+ 6
,,	,, 6	New Swindon	26·37	28·05	27·67	·38	— 1
,,	Dorset 1	Evershot (Melbury House)	37·70	38·20	30·58	7·62	— 20
,,	,, 3	Wareham (South Street)	32·10	31·39	28·74	2·65	— 8
,,	South Devon 2	Devonport (Rowdens Res.)	33·78	35·58	29·36	6·22	— 17
,,	,, ,, 4	Ashburton (Druid House)	48·68	51·61	42·86	8·75	— 17
,,	,, ,, 6	Cullompton	33·22	35·18	33·12	2·06	— 6
,,	North Devon 1	Lynton (Lee Abbey)	37·90	37·92	35 84	2·08	— 5
,,	,, ,, 2	Barnstaple (N. Devon Athenæum)	35·64	37·14	38·75	1·61	+ 4
,,	,, ,, 3	Okehampton (Oaklands)	43·95	46·25	46·24	·01	— 0
,,	Cornwall 2	Falmouth (New Observatory)	41·95	*42·69*	36·20	6·49	— 15
,,	,, 2	St. Austell (Trevarna)	43·87	46·21	40·10	6·11	— 13
,,	,, 3	Altarnon Sanctuary	57·51	58·97	56·74	2·23	— 4
,,	,, 4	Scilly (St. Mary's)	30·44	32·36	31·89	·47	— 1
,,	Somerset 2	Street (Millfield)	28·73	29·94	31·43	1·49	+ 5
VI.	Gloucestershire 3	Stroud (Field Place)	29·03	29·81	28·77	1·04	— 3
,,	,, 7	Great Barrington	*28·59*	*29·83*	29·09	·74	— 2
,,	Herefordshire 1	Ross (Birchlea)	26·65	28·78	28·00	·78	— 3
,,	,, 1	Kington (Lynhales)	31·55	33·28	33·93	·65	+ 2
,,	Shropshire 3	Church Stretton (Wolstaston)	31·74	32·41	29·11	3·30	— 10
,,	Staffordshire 2	Market Drayton (Old Springs)	29·47	*29·41*	28·00	1·41	— 5
,,	,, 5	Tean (The Heath House)	32·10	32·65	33·59	·94	+ 3
,,	Worcestershire 1	Malvern (Church Street)	28·12	28·57	28·58	·01	+ 0
,,	,, 2	Stourport (Lincombe Lock)	25·09	26·17	27·20	1·03	+ 4
,,	,, 3	Evesham (Lansdowne)	23·75	24·07	22·99	1·08	— 4
,,	Warwickshire 1	Ryton-on-Dunsmore	26·20	26·56	23·11	3·45	— 13
VII.	Leicestershire 4	Thornton Reservoir	25·73	26·44	28·42	1·98	+ 7
,,	,, 4	Belvoir Castle Gardens	24·80	26·05	22·18	3·87	— 15
,,	Lincolnshire 3	Boston (Black Sluice)	23·21	23·35	21·52	1·83	— 8
,,	,, 3	Lincoln (Skellingthorpe Hall)	22·72	23·70	21·64	2·06	— 9
,,	,, 4	Louth (Westgate)	27·30	28·74	25·76	2·98	— 10
,,	,, 5	Brigg	25·83	26·21	24·98	1·23	— 5
,,	Nottinghamshire 5	Worksop (Hodsock Priory)	23·15	24·46	20·23	4·23	— 17
,,	Derbyshire 5	Mickleover Manor	25·93	26·65	26·31	·34	— 1
,,	,, 6	Matlock Bath	34·49	34·57	31·26	3·31	— 10
VIII.	Cheshire 1	Woodhead Reservoir	45·59	47·97	45·38	2·59	— 5
,,	,, 2	Middlewich (Bostock Hall).	29·15	29·96	30·78	·82	+ 3
,,	South Lancashire 3	Bolton (Smithills Hall)	46·80	46·29	47·82	1·53	+ 3
,,	Central ,, 1	Stonyhurst College	45·88	46·79	44·18	2·61	— 6
,,	,, ,, 3	Southport (Hesketh Park)	31·13	32·70	33·71	1·01	+ 3
,,	North ,, 2	Cartmel (Holker Hall)	46·93	44·31	47·24	2·93	+ 7
,,	,, ,, 4	Wray Vicarage	43·74	44·34	41·97	2·37	— 5
IX.	Yorks, West Riding 1	Sedbergh (Akay)	52·52	52·12	55·57	3·45	+ 7
,,	,, ,, ,, 7	Sheffield W. W. (Redmires Res.)	40·25	41·31	34·64	6·67	— 16

ENGLAND—(*continued*).

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909. Amount.	Per cent
			in.	in.	in.	in.	
IX.	Yorks, West Riding 9	Leeds (Museum)	23·89	25·51	23·69	1·82	— 7
,,	,, ,, ,, 9	Silsden Reservoir	26·93	29·91	28·15	1·76	— 6
,,	,, ,, ,, 9	Malham Tarn	57·13	58·02	54·25	3·77	— 6
,,	,, ,, ,, 10	York (Cherry Hill)	23·50	24·78	22·99	1·79	— 7
,,	,, ,, ,, 11	Wetherby (Ribston Hall)	28·10	26·87	24·74	2·13	— 8
,,	,, East ,, 3	Patrington	22·40	24·05	20·77	3·28	— 14
,,	,, ,, ,, 3	Hull (Pearson Park)	24·84	26·42	24·18	2·24	— 8
,,	,, ,, ,, 3	Lowthorpe (The Elms)	25·09	27·35	24·56	2·79	— 10
,,	,, North ,, 1	Leyburn (Bolton Hall)	31·72	32·79	30·17	2·62	— 8
,,	,, ,, ,, 2	Rounton Grange	25·56	25·82	23·92	1·90	— 7
,,	,, ,, ,, 4	Scarborough (Osgodby)	24·09	*26·40*	24·56	1·84	— 7
,,	,, ,, ,, 5	Guisborough (Lockwood Beck)	31·89	33·13	30·46	2·67	— 8
X.	Durham 2	Wolsingham (Croft House)	31·02	33·75	30·57	3·18	— 9
,,	,, 2	Sunderland (W. Hendon Ho.)	25·29	26·07	27·32	1·25	+ 5
,,	Northumberland 4	Hallington (Fawcett)	28·11	28·95	26·58	2·37	— 8
,,	,, 5	Howick Hall	29·69	28·78	25·49	3·29	— 11
,,	,, 6	Pawston [Coldstream]	30·47	30·34	34·30	3·96	+ 13
,,	Cumberland 1	Carlisle (Spital Cemetery)	33·21	32·17	29·16	3·01	— 9
,,	,, 2	Borrowdale (Seathwaite)	126·16	129·48	*122·85*	6·63	— 5
,,	,, 3	Whitehaven (Irish Street)	43·57	41·70	42·49	·79	+ 2
,,	Westmorland 1	Appleby (Castle Bank)	35·15	34·41	32·75	1·66	— 5

MONMOUTH AND WALES.

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909. Amount.	Per cent
XI.	Monmouth 3	Llanfrechfa Grange	41·23	43·64	36·41	7·23	— 17
,,	,, 3	Abergavenny (Larchfield)	34·83	37·11	33·35	3·76	— 10
,,	Glamorgan 3	Ystalyfera (Wern School)	63·91	64·04	63·00	1·04	— 2
,,	,, 5	Cardiff (Ely Pumping Station)	41·02	42·28	38·27	4·01	— 9
,,	Carmarthen 2	Carmarthen (The Friary)	47·85	*48·80*	46·90	1·90	— 4
,,	,, 2	Llanwrda (Dolaucothy)	55·89	*56·60*	60·08	3·48	+ 6
,,	Pembroke 3	St. Davids	37·72	*36·75*	35·38	1·37	— 4
,,	,, 4	Pembroke (Stackpole Court)	37·83	40·26	35·83	4·43	— 11
,,	Cardigan 2	Aberystwyth (Gogerddan)	45·81	45·46	50·22	4·76	+ 10
,,	Brecon 4	Nanthir Reservoir [Aberdare]	57·23	59·39	48·08	11·31	— 19
,,	Radnor 1	Birmingham WW (Tyrmynydd)	*59·27*	*62·06*	54·62	7·44	— 12
,,	Montgomery 5	Lake Vyrnwy (Bank Cynon Isaf)	54·83	55·33	45·27	10·06	— 18
,,	Flint 1	Northop (Soughton Hall)	32·29	32·55	34·23	1·68	+ 5
,,	Denbigh 1	Wrexham (Pack Saddle Res.)	33·43	32·69	35·10	2·41	+ 7
,,	Merioneth 1	Bala (Eryl Aran)	54·94	52·18	53·82	1·64	+ 3
,,	,, 3	Tan-y-bwlch (The Gardens)	62·93	*62·25*	70·96	8·71	+ 14
,,	Carnarvon 2	Llandudno	29·76	30·36	26·67	3·69	— 12
,,	Anglesey	Llanerchymedd (Llywdiarth Esgob)	39·66	38·57	41·10	2·53	+ 7

ISLE OF MAN.

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909. Amount.	Per cent
XI.	Isle of Man	Douglas (Borough Cemetery)	41·35	41·55	42·14	·59	+ 1

SCOTLAND.

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909. Amount.	Per cent
XII.	Wigtown 3	Stoneykirk (Ardwell House)	38·52	36·40	36·44	·04	+ 0
,,	Kirkcudbright 2	Gatehouse (Cally)	50·04	49·15	46·32	2·83	— 6
,,	,, 3	Dalry (Glendarroch)	55·17	*52·60*	50·70	1·90	— 4

SCOTLAND—(*continued.*)

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909. Amount.	Per cent
			in.	in.	in.	in.	
XII.	Kirkcudbright 4	Auchencairn (Torr House)	48·94	46·80	46·18	·62	— 1
,,	Dumfries 3	Durrisdeer(DrumlanrigGdns.)	46·22	43·71	43·40	·31	— 1
,,	,, 4	Moffat (Craigielands)	53·06	*53·20*	43·72	9·48	— 18
,,	,, 5	Canonbie (Byreburnfoot)	42·74	42·56	41·75	·81	— 2
,,	Roxburgh 3	Hawick (Branxholme)	32·27	33·80	32·78	1·02	— 3
XIII.	Selkirk 5	Galashiels (Stantling Craigs)	33·63	*34·75*	30·64	4·11	— 12
,,	Peebles 3	N. Esk Reservoir [Penicuick]	39·94	39·75	36·45	3·30	— 8
,,	Berwick 4	Marchmont House	32·52	33·76	33·33	·43	— 1
,,	Haddington 4	Prestonkirk (Smeaton)	26·00	25·47	23·80	1·67	— 7
XIV.	Lanark 1	Biggar (Cambus Wallace)	30·23	30·47	30·23	·24	— 1
,,	,, 4	Airdrie (Hillend Reservoir)	38·13	37·72	37·28	·44	— 1
,,	Ayr 3	Kilmarnock(NorthCraigRes.)	45·21	40·92	44·20	3·28	+ 8
,,	,, 8	Girvan (Pinmore)	53·19	49·77	48·32	1·45	— 3
XV.	Dumbarton 2	Helensburgh (Ferniegair)	48·86	49·14	52·29	3·15	+ 6
,,	Stirling 5	Strathblane (Mugdock Res.)	43·34	46·44	45·15	1·29	— 3
,,	Argyll 2	Loch Sunart (Glenborrodale)	69·47	66·99	68·76	1·77	+ 3
,,	,, 7	Kilmelfort (Arduaine)	59·13	*57·60*	56·81	·79	— 1
,,	,, 10	Campbeltown (Devaar)	47·33	44·23	52·63	8·40	+ 19
,,	,, 10	Skipness Castle	49·95	49·44	52·25	2·81	+ 6
,,	,, 14	Islay (Eallabus)	51·26	48·79	56·53	7·74	+ 16
,,	,, 14	Mull (Quinish)	57·55	56·57	49·84	6·73	— 12
XVI.	Kinross 2	Loch Leven Sluice	36·70	36·54	26·36	10·18	— 28
,,	Fife 2	Colinsburgh (Balcarres)	32·78	*33·37*	27·45	5·92	— 18
,,	Perth 2	Loch Dhu	81·21	78·58	66·80	11·78	— 15
,,	,, 3	Balquhidder (Stronvar)	74·43	73·77	58·02	15·75	— 21
,,	,, 4	Dunblane (Kippendavie)	45·48	39·37	37·99	1·38	— 4
,,	,, 14	Blair Atholl	33·36	32·35	26·05	6·30	— 19
,,	,, 15	Blairgowrie (Ballintuim Ho.)	*38·58*	*37·68*	28·80	8·88	— 24
,,	Forfar 2	Dundee (Eastern Necropolis)	27·72	28·64	25·31	3·33	— 12
XVII.	Kincardine 1	Fettercairn (The Burn)	35·13	34·75	28·02	6·73	— 19
,,	Aberdeen 1	Braemar (Bank)	34·11	34·93	30·65	4·28	— 12
,,	,, 1	Logie Coldstone (Loanhead)	32·72	30·67	27·88	2·79	— 9
,,	,, 1	Aberdeen (Cranford House)	32·70	*32·73*	27·92	4·81	— 15
,,	,, 4	New Deer Schoolhouse	32·89	*34·74*	32·00	2·74	— 8
,,	Moray 2	Gordon Castle	30·64	30·34	31·16	·82	+ 3
,,	,, 3	Grantown-on-Spey	32·65	31·23	33·98	2·75	+ 9
XVIII.	Inverness 3	Kingussie	29·66	*29·62*	33·28	3·66	+ 12
,,	,, 6	Fort Augustus	45·19	*44·53*	43·58	·95	— 2
,,	,, 7	Glenquoich	115·15	109·34	114·20	4·86	+ 4
,,	,, 9	Drumnadrochit	35·08	*36·13*	37·65	1·52	+ 4
,,	,, 9	Inverness (High School)	28·12	27·14	29·00	1·86	+ 7
,,	,, 13	Arisaig House	62·88	*61·75*	64·77	3·02	+ 5
,,	,, 17	Fort William	77·59	75·80	68·30	7·50	— 10
,,	,, 18	Skye (Scalpay Island)	77·22	*74·40*	70·97	3·43	— 5
,,	,, ,, 19	North Uist (Monach)	42·13	46·55	39·14	7·41	— 16
,,	,, 19	Harris (Island Glass)	46·26	42·44	44·71	2·27	+ 5
,,	Ross & Cromarty 5	Fearn (Lower Pitkerry)	23·49	23·18	25·14	1·96	+ 8
,,	,, ,, 8	Loch Torridon (Bendamph)	89·50	83·64	85·19	1·55	+ 2
,,	,, ,, 9	Glencarron Lodge	87·59	*86·50*	94·50	8·00	+ 9
,,	,, ,, 10	Stornoway	50·48	48·40	50·42	2·02	+ 4

SCOTLAND—(*continued*).

DIV.	COUNTY and river-division.		STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Difference from Average 1875-1909.	
							Amount.	Per cent
				in.	in.	in.	in.	
XIX.	Sutherland	2	Dunrobin Castle	33·07	31·90	36·10	4·20	+ 13
,,	Caithness............	2	Wick	31·35	29·88	31·29	1·41	+ 5
,,	,, ...	3	Dunnet Head	29·16	29·89	32·50	2·61	+ 9
,,	Orkney		Shapinsay (Balfour Castle)...	30·57	32·13	35·72	3·59	+ 11

IRELAND.

DIV.	COUNTY and river-division.		STATION.	Average 1900-09.	Average 1875-1909.	Depth in 1917.	Amount.	Per cent
XX.	Cork	7	Glanmire (Lota Lodge)	*41·90*	*44·08*	36·04	8·04	— 18
,,	,, ...	9	Mallow (Summer Hill)	38·20	*38·90*	34·31	4·59	— 12
,,	Kerry	3	Killarney (District Asylum)..	50·48	54·81	45·57	9·24	— 17
,,	,, ...	4	Darrynane Abbey..............	47·76	*49·95*	45·69	4·26	— 9
,,	,, ...	4	Kenmare (Dromore)	70·26	64·92	53·64	11·28	— 17
,,	,, ...	6	Valencia (Glanleam)	56·10	*56·01*	50·76	5·25	— 9
,,	Waterford...........	3	Waterford (Brook Lodge) ...	40·12	39·57	33·88	5·69	— 14
,,	Tipperary	1	Nenagh (Castle Lough)	38·55	39·43	35·67	3·76	— 10
,,	,, ...	3	Clonmel (Bruce Villa).........	35·90	*37·10*	33·24	3·86	— 10
,,	,, ...	4	Roscrea (Timoney Park)......	*36·50*	*36·00*	32·47	3·53	— 10
,,	Limerick	2	Foynes	39·23	*39·60*	32·84	6·76	— 17
,,	Clare	2	Ennistymon House	47·77	46·52	41·83	4·69	— 10
,,	,, ...	3	Carrigaholt Castle	36·97	*36·60*	33·53	3·07	— 8
,,	,, ...	3	Newmarket-on-Fergus.........	41·99	*42·00*	36·31	5·69	— 14
XXI.	Wexford	3	Enniscorthy (Ballyhyland)...	42·13	42·70	38·27	4·43	— 10
,,	,, ...	4	Gorey (Courtown House) ...	33·34	34·99	32·97	2·02	— 6
,,	Kilkenny	2	Kilkenny (Lavistown House)	30·92	31·15	28·00	3·15	— 10
,,	Queen's County ...	2	Abbey Leix (Blandsfort)......	37·70	35·92	33·91	2·01	— 6
,,	King's County	1	Birr Castle......................	32·77	32·86	32·40	·46	— 1
,,	Kildare	1	Monasterevan (Moore Abbey)	32·18	*32·50*	32·17	·33	— 1
,,	,, ...	2	Straffan House	30·56	*31 61*	30·42	1·19	— 4
,,	Dublin	2	Dublin (FitzWilliam Square)	26·93	27·68	29·03	1·35	+ 5
,,	,, ...	3	Balbriggan (Ardgillan)	28·62	*29·58*	30·34	·76	+ 3
,,	Meath	4	Kells (Headfort)	*34·25*	*37·25*	33·51	3·74	— 10
,,	Westmeath	1	Athlone (Twyford)	34·99	37·35	40·17	2·82	+ 8
,,	,, ...	1	Mullingar (Belvedere)	35·89	36·15	37·99	1·84	+ 5
,,	Louth	3	Greenore	32·95	32·33	33·44	1·11	+ 3
XXII.	Galway	3	Tuam (Gardenfield)...........	44·06	42·69	43·13	·44	+ 1
,,	,, ...	4	Woodlawn........................	42·19	*41·57*	39·02	2·55	— 6
,,	Mayo	2	Crossmolina (Enniscoe)	54·37	52·87	54·14	1·27	+ 2
,,	,, ...	4	Westport (St. Helen's)	*47·10*	*46·20*	44·84	1·36	— 3
,,	,, ...	6	Cong (The Glebe)	49·78	*48·90*	50·63	1·73	+ 4
,,	Sligo	2	Collooney (Markree Obs.) ...	44·40	42·71	51·38	8·67	+ 20
XXIII.	Cavan	1	Belturbet (Cloverhill)	35·52	33·74	34·68	·94	+ 3
,,	Armagh	5	Armagh Observatory	32·09	31·88	34·62	2·74	+ 9
,,	Down	2	Seaforde.........................	39·47	38·91	37·79	1·12	— 3
,,	,, ...	7	Banbridge (Milltown)	31·51	31·40	33·27	1·87	+ 6
,,	Antrim	1	Belfast (Queen's University)..	35·89	33·81	36·00	2·19	+ 6
,,	,, ...	5	Ballymena (Harryville)	42·52	40·84	47·62	6·78	+ 17
,,	Londonderry	5	Londonderry (Creggan Res.)	42·94	41·78	52·44	10·66	+ 26
,,	,, ...	5	Limavady (Drenagh)	37·88	37·46	43·38	5·92	+ 16
,,	Tyrone	3	Omagh (Edenfel)	*42·30*	39·38	45·53	6·15	+ 16
,,	Donegal	3	Dunfanaghy (Horn Head) ...	45·18	*44·40*	49·25	4·85	+ 11
,,	,, ...	5	Killybegs	*60·95*	*60·60*	69·21	8·61	+ 14

EXTREMES OF RAINFALL IN 1917.

Districts of Greatest Rainfall.

In England the total rainfall for the year reached 100 inches only in the heart of the Lake District, and more than 150 inches fell near the heads of Borrowdale and Langdale. The highest readings in these places were **171·80 in.** on the Stye and **150·66 in.** at Mickleden. In Wales there were at least two centres with 100 inches, 103·20 in. being recorded on the summit of Plynlimon and more than 100 inches by a number of gauges in the Snowdon area and southward to Blaenau Festiniog. The largest fall was **140·49 in.** at Llyn Llydaw. In Scotland a great area with more than 100 inches in the West Highlands appears to have extended from Ardgour to near Glencarron. The highest total record was round the head of Loch Quoich, where **170·03 in.** fell at Loan, and 145·64 in. at Kinlochquoich. No records of 100 inches were reported from Ireland, the nearest being **99·11 in.** at Delphi Lodge, in Western Connemara. At Gearahameen in, Kerry, 84·90 in. fell.

Districts of Least Rainfall.

In England a number of stations in the Fens, north of Peterborough, and also one or two on the coast of Essex, recorded slightly **less than 20 inches** which may be taken as the smallest fall for the country, but in Wales only a narrow strip of the north coast, between Llandudno and Hoylake had less than 30 inches. The smallest fall was **about 27 inches.** In Scotland an eastern coastal strip, extending northward to near Aberdeen, had less than 25 inches, and the total fell to **about 20 inches** between Montrose and Carnoustie. In Ireland the fall was less than 30 inches along most of the coast line, from Belfast to Cork, and the minimum was **about 25 inches** near Kingstown.

Summary.

The highest rainfall recorded for the British Isles was on the Stye, Cumberland, but Loan, Inverness-shire, ran it very close, both stations having rather more than **170 inches**, whilst both Wales and Ireland failed to record extremely high falls. As with the maxima the minima were recorded in England and Scotland, and **20 inches**, or slightly less, fell at one or two spots on or near the east coast in both countries.

BRITISH RAINFALL ORGANIZATION.

Hugh Robert Mill,
Carle Salter,
Joint Directors.

BRITISH RAINFALL, 1917.
PART III.

GENERAL TABLE
OF
TOTAL RAINFALL IN 1917
AT
5085 STATIONS
IN
GREAT BRITAIN AND IRELAND,
WITH THE NAMES OF
THE OBSERVERS
OR OTHER AUTHORITIES FOR THE OBSERVATIONS.

COMPILED BY
CARLE SALTER.

62 Camden Square, London, N.W. 1.

EXPLANATORY NOTE.

The counties are divided up into numbered areas, corresponding to the river-basins. A full description of these river-divisions for England and Wales was given in a special article in Part I. of *British Rainfall, 1910*, (pp. 37—66), and a similar article on the river-divisions of Scotland and Ireland appeared in Part I. of *British Rainfall, 1911*, (pp. 49—72), with detailed maps showing all the river-divisions in each Division.

The Divisions in the General Table are the same as those adopted by the Registrars General of England and Scotland. The stations in each river-division are arranged nearly in the order of their latitude from South to North.

For convenience, the first name is that of a place which can be easily found on any large scale map; the second name is added to fix the site of observation more closely. In a very few instances, when in [ ] instead of ( ), it is that of the nearest town in an adjoining county; *e.g.*, "Haslemere (Courts Hill)" means Courts Hill, near Haslemere, both in one county; but "Geldeston [Beccles]" means Geldeston near Beccles, which is in another county.

In the column headed "diameter," figures in old style type indicate the length of the sides of rectangular gauges.

The letter D signifies that daily observations have been received and are complete for the year. M indicates that the gauge is read only once a month. (R) denotes that the gauge used is a self-registering or a recording instrument, the correct reading of which depends upon the mechanism being in working order.

When the words *per* M.O. follow the name of the Observer the record is printed on the authority of the Meteorological Office. M.O.S. indicates Meteorological Office, Edinburgh, and S.M.S. Scottish Meteorological Society.

The total rainfall is printed in ordinary type under the heading of the unit in which the readings were made, *i.e.*, in inches or millimetres. The total as converted from inches to millimetres, or from millimetres to inches, is printed in old style type. If the record was taken during part of the year in inches and part in millimetres, the figures in both columns are printed in old style type.

A few entries of total rain will be found in italics—indicating that the values have been corrected, *e.g.*, when snow has been lost, when the amount for a short period has been computed from other records, or when the gauge has been moved a short distance during the year. A record is not printed if the gauge has been moved more than a mile, or if there is a greater difference than 50 feet of altitude between the two positions.

A dagger (†) denotes that the rain gauge has been visited and examined, or the site for it personally selected, by the Editor or one of his assistants. A note of interrogation (?) implies doubt, not necessarily error; it is not intended to cast any suspicion on the accuracy of the Observer. The absence of information is indicated by . .

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ENGLAND AND WALES.

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DIVISION I.—LONDON. (Area, 117 sq. mi.)

STATIONS	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
1.—*THAMES—Right Bank*	*Tributaries.* 67 *sq. mi.*	*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
Bermondsey.								
D ,, ShadThamesPumpingStat.	London County Council	6	28	5	43	595	23·42	156
D **Lambeth** (Brockwell Park)....	,, ,, ,, .	8	1	3	140	624	24·56	139
D ,, (Brixton Hill Res.)	Met. Water Board......	5	3	2	115	646	25·43	157
D **Battersea** (Water Works) ...	Mr. F. J. Goldsworthy .	5	3	6	26	602	23·72	139
D ,, Nine Elms (Heathwall)	London County Council	8	39	4	54	570	22·46	159
Wandsworth.								
D† ,, Streatham(SouthwarkW.W.)	Met. Water Board......	5	2	9	119	637	25·08	168
D ,, ,, Hill Reservoir ...	,, ,, ,, ...	5	3	1	197	645	25·38	156
D† ,, (Putney Heath Reservoir) ..	,, ,, ,, ...	5	1	0	180	717	28·23	178
D† ,, (Balham High Road)....(R)	P. Dodd, Esq., C.E.	6	1	6	89	734	28·90	188
D ,, WandsworthCom.(LoxleyRd)	F. J. Brodie, Esq.	8	1	0	105	745	29·35	202
D† ,, Southfields ....(R)	P. Dodd, Esq., C.E.	6	1	6	37	668	26·32	166
,, Clapham Com.(MacaulayRd.)	Miss A. H. Boyson	5	1	6	75	695	27·37	136
,, ,, ,, (The Chase) ..	H. N. Prentice, Esq.....	5	1	5	70	642	25·29	..
Camberwell.								
D† ,, Nunhead(Southwark W.W.)	Met. Water Board......	5	1	0	173	647	25·46	173
Deptford (Telegraph Hill)....	London County Council	5	8	6	135	544	21·43	..
D† ,, (Kent Water Works)	Met. Water Board......	5	1	0	20	592	23·31	147
Greenwich,								
D† (Deptford Pumping Sta.)	London County Council	8	4	0	18	623	24·51	142
D† ,, (Royal Observatory) No. 8	Sir F. W. Dyson, F.R.S.	8	1	0	150	657	25·86	167
D† ,, (,, ,,) No. 6	,, ,, ,, ..	8	0	5	149	661	26·01	167
Lewisham,								
D† Forest Hill (Barr Beacon)	Met. Water Board......	5	3	3	340	697	27·46	163
D **Lewisham** (Clarendon Road) ..	G. E. Dacey, Esq.	5	1	0	..	701	27·60	187
D **Woolwich**, Eltham(High St.) .	Met. Water Board......	5	1	0	245	690	27·16	154
D ,, PlumsteadCom.(S.John'sRd)	J. G. Waller, Esq.	8	2	6	270	706	27·78	189
2.—*THAMES—Left Bank*	*Tributaries.* 50 *sq. mi.*							
D **Paddington** (Harrow Road) ..	C. W. Heinemann, Esq.	8	1	9	101	688	27·08	165

DIVISION I.—LONDON.—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01in. or more
2.—*THAMES—Left Bank Tributaries*—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
D†Kensington (V.& A. Museum)	.J. Storr, Esq.	8	0	6	27	698	27·50	176
† ,, (Nat.History Mus.)	Meteorological Office ...	8	1	0	31	697	27·45	163
D ,, (Holland House)	...Mr. C. Dixon	5	4	0	69	783	31·04?	161
† ,, (Cam House)	.......Lord Phillimore	5	3	0	100	778	30·65	135
D† ,, (Campden Hill)	....Met. Water Board......	8	1	0	142	838	33·00	168
D Hammersmith (The Creek)	...London County Council.	8	15	5	35	668	26·32	162
†Fulham (Acfold Road)	.....Mrs. Carter	5	1	0	13	724	*28·50*	..
D† ,, (HammersmithCmtry)	Mr. R. J. Brown	5	1	0	16	741	29·18	167
D Chelsea (Lots Rd. Pump. Sta.)	London County Council.	8	32	0	48	577	22·72	164
D ,, (Western ,, ,,).	,, ,, ,,	8	1	0	19	623	24·53	157
D ,, (Physic Garden)	.....W. Hales, Esq.	5	1	0	20	639	25·16	161
D ,, (Oakley Street)	.....Lt.A.HamptonBrownRNR	5	1	0	25	664	26·13	167
D ,, (St. Luke's Gardens)	.T.W. E. Higgens,Esq.C.E.	5	1	0	25	695	27·36	162
Westminster.								
D (King'sScholarsPond)	London County Council.	8	11	6	31	621	24·45	171
D ,, (St.George's Square)	..T. H. McEwen, Esq.....	8	0	7	..	642	25·27	148
D† ,, (Buckingham Palace)	.Mr. W. Osborne.........	5	8	6	35	676	26·61	168
D† ,, (Kensington Gdns.)	..Mr. W. Beecher........	8	2	2	..	767	30·18	162
† ,, (St. James's Park)	...HMOffice of Wrks*per*MO	8	1	0	27	676	26·62	161
,, (Hyde Park)	........Royal Humane Society .	8	1	3	..	588	23·16	..
D ,, (Spring Gardens)..(1)	London County Council	8	66	4	95	681	26·81	160
D ,, (,, ,,)..(2)	,, ,, ,,	12	65	11	95	680	26·78	160
D ,, (,, ,,) (3)	,, ,, ,,	8	6	0	35	688	27·09	160
D ,, (Strand)	............J. J. Steward, Esq.	5	40	0	80	672	26·47	151
St. Marylebone,								
D† (Royal Botanic Gardens)	Mr. J. L. North	8	1	0	130	757	29·80	165
,, (33, Hamilton Terrace)	..E. Heron Allen, Esq. ...	5	0	6	..	723	28·48	..
D ,, (Ormond Terrace)	......Mrs. Hamlyn Price	5	1	5	145	768	30·25	167
D†Hampstead (Barrow Hill Res.)	Met. Water Board......	5	3	4	197	784	30·87	186
,, (Kemplay Road)	.C. Clarke, Esq..........	5	2	0	..	631	24·84	..
D† ,, (Kidderpore Res.)	Met. Water Board......	5	1	0	322	564	22·19	148
D ,, (New End Square)	Mr. W. Pikesley	5	1	0	..	735	28·93	166
D† ,, Observatory	....E. L. Hawke, Esq.	8	1	0	451	767	30·18	168
† ,, (Golder's Hill)	...London County Council	5	9	8	350	627	24·70	..
D†St. Pancras (Camden Square)	.Dr. H. R. Mill	8	0	9	111	763	30·04	175
D† ,, (,, ,,)*Snowdon*	,, ,, ,, ...	5	1	0	111	756	29·76	167
† ,, (,, ,,) *weekly*	,, ,, ,, ...	5	1	2	111	768	30·23	..
† ,, (,, ,,)*float g.* M	,, ,, ,, ...	8	0	11	111	745	29·32	..
Stoke Newington.								
D† (New River Filter Beds)	Met. Water Board......	5	1	0	101	690	27·17	157
D† ,, ,, (,, ,, Reservoirs) ..	,, ,, ,, ...	5	1	0	105	696	27·40	164
Hackney (Clapton Pond)	.....Norman Scorgie, Esq.CE	5	1	0	69	658	25·92	154
D ,, (,, ,,) ..(R)	,, ,, ,,	8	2	6	70	659	25·93	154
†Holborn (Stone Yard)	.......E. F. Spurrell, Esq. ...	5	12	0	89	634	24·98	..
D†Finsbury (New River Head)	.Met. Water Board......	5	1	0	95	652	25·68	149
City of London (Guildhall)	..E. E. Finch, Esq., C.E. .	8	2	6	46	590	*23·25*	..
Bethnal Green (Victoria Park)	London County Council.	5	9	3	43	551	21·71	..
D Poplar,Isle ofDogs(StewartRd)	,, ,, ,,	8	1	0	15	646	25·45	152
,, (Island Gardens)	,, ,, ,,	5	4	6	..	576	22·66?	..
D† ,, (OldFordPump.Stat.)	....Met. Water Board......	8	0	9	19	667	26·25	165
D ,, (,, ,, Penstock Ho.)	.London County Council	8	1	0	43	644	25·36	156

DIVISION I.—LONDON—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01in. or more
		Diam.	Height Above Ground		Sea Level			
2.—*THAMES—Left Bank Tributaries*—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
Woolwich.								
(NWoolwichPumpingSta.)	London County Council	8	0	9	12	621	24·44	..
D ,, (Barking Outfall) ..	,, ,, ,,	8	0	9	9	634	24·96	169

DIVISION II.—SOUTH EASTERN COUNTIES.

STATIONS.	AUTHORITIES.	Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01in. or more
SURREY. (Area, 725 sq. mi.)								
1.—*ARUN.* 45 *sq. mi.*								
†Haslemere (Clammer Hill)	Col. Farquhar Glennie .	5	1	0	400	804	31·64	165
D ,, (Grayswood Tower)	S. Barker, Esq.	5	1	0	625	777	30·59	149
Godalming (Rockwoods, Brook)	*Surrey Advertiser*		..		450	725	28·56	..
D Oakwood Vicarage	Rev. Canon J. Shearme	5	0	9	285	662	26·06	153
D Abinger(Joldwynds,Holmbury)	Mr. F. Cornish	5	1	0	550	847	33·34	158
2.—*MEDWAY.* 50 *sq. mi.*								
D†Felbridge (Chartham Park) ...	Lieut. T. D. Margary ..	5	1	0	270	839	33·02	175
D†Dormans Park (Hill Crest)	Mrs. H. R. Mill	5	1	0	320	862	33·93	184
D Lyden Croft [Edenbridge]	Surg.-Gen. C. Planck ...	8	1	0	212	756	29·76	171
D Oxted (Stone Hall)	W. P. Metcalfe, Esq. ...	5	1	2	320	795	31·30	175
D Limpsfield (Ballards Shaw) ...	F. C. Bayard, Esq.	5	1	1	500	732	28·81	178
3.—*THAMES—Darent.* 22 *sq. mi.*								
Chelsham (Fairchildes)........	A. S. Daniell, Esq.	8	1	0	600	829	32·63	..
,, (,,).......	Mr. G. T. Mansfield	5	0	10	600	767	30·19	..
D Addington(HaresBnkPumpSta)	Croydon Corporation ...	8	1	0	331	735	28·95	187
D† ,, Hills Reservoir.....	,, ,, ...	8	0	9	473	771	30·36	218
D South Norwood(WoodsideVic.)	RevSirP.M.Bowman,Bt.	5	1	0	..	574	22·59	148
D ,, ,, (Holmesdale Road).	E. A. Martin, Esq.	5	1	0	200	691	27·21	158
D Norwood (Auckland Road) ..	Miss J. Cooper	5	1	5	230	671	26·41	154
D Anerley (Town Hall)	F. C. Bayard, Esq.	8	40	0	191	740	29·14	154
4—*THAMES—Wandle.* 71 *sq. mi.*								
D Kingswood (Margery Hall Res.)	WVauxGrahamEsq.C.E. .	5	1	0	691	723	28·46	154
D Upper Gatton	F. Druce, Esq..........	5	1	0	601	868	34·19	148
Woldingham Reservoir ....M	W.Vaux Graham, Esq.CE	5	1	6	851	822	32·38	..
D Caterham Reservoir	AECornewall-WalkerEq.	5	1	0	705	936	36·87	183
D Chaldon Rectory	F. C. Bayard, Esq. ...	5	1	0	542	866	34·08	148
D Chipstead (Eyhurst)	D. Morphew, Esq.	5	0	11	538	813	32·00	185
,, (Walpole Avenue) ..	F. C. Bayard, Esq. ...	5	1	0	530	913	35·95	..
D Caterham Asylum	,, ,, ,, ...	5	1	0	607	866	34·11	189
D Chelsham&Woldingham W.W.	W.VauxGraham,Esq.C.E.	5	1	0	479	868	34·18	166
D Warlingham (The Larches) ...	Mrs. B. F. Harris	5	1	0	615	906	35·67	185
D ,, (Redvers Road) ..	R. H. Curtis, Esq.......	8	1	0	610	885	34·84	188
D CaterhamValley(MountVernon)	M. Ll. Evans, Esq.	5	0	10	500	922	36·29	174
D ,, ,, Depôt	AECornewall-WalkerEsq	5	1	6	431	877	34·54	186
D Netherne(SurreyCountyAsy.) ..	F. C. Bayard, Esq. ...	5	1	0	560	972	38·25	144
D Banstead (Burgh Heath)......	Capt. E. R. Taylor	5	1	0	571	776	30·53	180
D ,, (,, ,, Reservoir)	W.VauxGrahamEsqC.E	5	1	0	570	796	31·33	162
Chipstead (The Lodge)	F. E. Goad, Esq.	5	0	9	525	806	31·74	167
D ,, (How Green Res.) ..	W. VauxGrahamEsqC.E.	5	1	0	528	806	31·75	169
D Kenley Pumping Station	AECornewall-WalkerEsq.	5	1	6	275	805	31·71	189
D Banstead (The Asylum)	F. C. Bayard, Esq. ...	5	1	0	406	638	25·13	150
D Purley (Oakwood Avenue)	E. W. Finch, Esq.......	5	0	10	380	777	30·59	182
D ,, (Riddlesdown Rd.)No.1	J. Edmund Clark, Esq. .	5	1	0	360	803	31·60	197

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	SURREY—(*continued*).								
	4.—*THAMES—Wandle—(continued.)*								
D	Purley (Riddlesdown Rd.) No. 2	J. Edmund Clark, Esq.	5	1	0	360	794	31·26	197
D	,, (Pumping Station)	AECornewall-WalkerEsq.	5	1	0	225	795	31·30	177
D	Sanderstead (Beechwood Road)	E. Alexander, Esq.	5	1	0	370	792	31·16	182
D	South Croydon (Avondale Rd.)	late Dr. G. J. Hinde, F.R.S.	5	1	0	225	750	29·51	171
	Wallington (Alcester Road)	F. C. Bayard, Esq.	5	4	1	140	720	28·34	182
D	,, (,, ,,)	,, ,, ,,	8	1	0	140	691	27·20	194
D	Carshalton (Sewage Works)	,, ,, ,,	5	1	0	118	688	27·07	158
D	Beddington (Sewage Farm)	Croydon Corporation	5	1	0	129	604	23·76	173
D	Croydon (Waddon New Road)	G. Corden, Esq.	5	1	0	146	742	29·21	170
D	BeddingtonCor. (Millgreen Rd)	F. C. Bayard, Esq	5	5	0	77	676	26·63	151
D	Wimbledon (Kingston Road)	H. A. Marshall, Esq	5	1	0	54	729	28·71	179
D	,, (Trinity Road)	P. J Bevan, Esq., C E	5	1	0	53	697	27·44	167
D	,, (Sewage Works)	C. H. Cooper, Esq., C.E.	5	1	0	55	636	25·02	172
D	,, Park (Dora Road)	H. B. Ransom, Esq.	5	1	1	136	669	26·35	190
	5.—*THAMES—Mole & c.* 229 *sq. mi.*								
	Lowfield Heath (HuntsGreenHo)	A. E. Robinson, Esq.	5	0	7	200	847	33·36	186
	Charlwood (Greenings)	J. A. Innes, Esq.	5	1	0	300	758	29·84	..
D	Horley (Smallfield)	F. C. Bayard, Esq.	5	1	0	215	673	26·50	195
D	Outwood (The Orchards)	,, ,,	5	1	0	280	748	29·45	186
D	Dorking (StoneHouse, RoseHill)	Lt.-Col. J. R. Greenhill	5	1	0	240	801	31·53	184
	,, (West Street)	Mrs. W. A. Marsh	10	26	0	224	814	32·06	140
D†	,, (Denbies)	Mr. J. Ansell	5	0	9	610	807	31·76	184
D†	,, (Pixham Firs)	J. Croft Deverell, Esq.	8	0	6	150	831	32·73	186
D†	Brockham (North Lodge)	H. R. Kempe, Esq., C.E.	5	0	9	160	748	29·45	159
D	Reigate (Hartswood)	R. C. Clutton, Esq.	5	1	0	174	751	29·57	168
D	South Nutfield (Hale Edge)	R. C. Grant, Esq.	5	1	0	270	728	28·65	171
D	Earlswood (Sewage Farm)	F. T. Clayton, Esq., C.E.	5	1	6	196	742	29·20	167
D	,, (Poppy's Corner)	P. L. Rooper, Esq.	8	1	3	..	801	31·52	191
D	Redhill (Station Road)	W. H. Fowler, Esq.	5	18	0	270	757	29·79	162
D	,, (Wigmore)	W. A. Gunner, Esq.	5	1	0	250	790	31·11	172
D	,, (Warwick Road)	AECornewall-WalkerEsq	5	1	6	284	782	30·79	183
D†	Reigate (The Knowle)	G. Weston, Esq.	5	1	0	390	724	28·49	165
D†	,, (Wray Lodge)	A. Rosling, Esq.	5	1	0	316	792	31·18	157
D†	,, (,, Park Road)	Mr. F. W. Hedges	5	1	0	281	828	32·58	153
D†	,, (Castle Grounds)	F. T. Clayton, Esq., C.E.	5	1	6	350	755	29·74	181
	,, (Castle Keep)	E. H. Goad, Esq.	5	0	7	..	792	31·20	..
	,, (Northcote)	Mr. H. Tanner	5	1	3	364	788	31·01	148
	,, (Laglands)	J. Welch, Esq.	5	1	2	375	805	31·69	163
D	Nutfield Priory	Mrs. Fielden	8	1	2	468	796	31·34	192
D	,, ,,	F. C. Bayard, Esq.	8	1	2	331	831	32·71	191
	Bletchingley (South Park Fm.)	W. Lambert, Esq.	5	0	4	340	811	31·92	169
D	Betchworth (Snower Hill)	T. Du Buisson, Esq.	8	0	9	250	698	27·46	166
D†	,, (Sandhills)	C. J. Whittington, Esq.	5	1	0	250	705	27·75	175
†	,, (The Holmes)	F. R. Rushton, Esq.	5	0	8	322	798	*31·42*	*186*
D†	Buckland (The White House)	J. Herbert Scrutton, Esq.	8	1	6	260	791	31·14	137
	Reigate (Hatherlow Observatory)	S. T. Klein, Esq.	5	0	9	375	793	31·21	167
	Mickleham (Juniper Hall)	G. MacAndrew, Esq.	5	1	0	183	840	33·06	..
D	Headley Rectory	Rev. T. E. R. Phillips	5	1	0	575	779	30·67	185
D	,, (The Hurst)	Mrs. Lyall	5	1	3	420	777	30·58	166

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	SURREY—(*continued*).		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	5.—*THAMES—Mole & c.*—	(*continued*).							
D	Walton (Walton Manor)	Mr. T. W. Dudley	5	1	0	600	796	31·35	179
D	Tadworth (Warren Gate)	W. J. Saunders, Esq. ..	5	1	6	577	799	31·46	173
D	Ashstead (D'Abernon Chase) .	F. C. Bayard, Esq.	5	1	0	280	740	29·13	152
D†	,, (Oakfield Road)	H. F. Acocks, Esq.	5	1	4	180	683	26·89	144
D	,, (,, ,,)	,, ,, ,, ...	5	1	0	180	689	27·12	144
D†	,, (The Hut)	F. C. Bayard, Esq. ...	5	0	5	200	696	27·39	170
	Cobham (Hatchford Park).....	Sir H.B.Samuelson, Bart.	5	1	0	170	857	33·75	..
	Oxshott (Oaklands)	*Surrey Advertiser*		0	6	246	690	27·16	..
D	Banstead (The Hall)	F. C. Bayard, Esq. ...	8	1	0	480	756	29·75	172
D	Epsom (The Durdans)	J. Barclay, Esq.	8	0	11	217	709	27·91	169
D	,, (Hylands Road)	F. Holroyd, Esq.	5	1	0	220	746	29·35	166
D	,, (Waterworks)	E. R. Capon, Esq.......	8	1	0	125	684	26·93	172
D	Weybridge (Burcote)	Mrs. C. Sanger	5	0	9	117	727	28·62	171
D	Sutton (Camborne Road)......	F. E. Wright, Esq. ...	5	1	0	250	739	29·11	178
D	Claygate (Hertslets)	N. C. Armitage, Esq. .	5	1	0	106	671	26·40	186
D	Esher (Sewage Works)	F. C. Bayard, Esq.	5	1	0	42	635	25·01	157
	Sutton (High Sch., Cheam Rd.)	Miss D. Lufkin	5	1	0	197	614	24·18	..
D	,, (Water Works)	W. Vaux Graham, Esq C.E.	5	1	6	166	675	26·58	162
D	,, (Sewage Works)	W. H. Grieves, Esq., C.E.	8	1	0	100	794	31·27	151
D†	Surbiton (Seething Wells)	Met. Water Board......	5	0	10	34	638	25·12	167
D	East Molesey (Ember House) .	Wilfrid Taylor, Esq. ...	5	1	0	30	688	27·10	158
D†	West Molesey (Walton Works).	Met. Water Board......	5	0	6	35	642	25·26	154
	New Malden (Sewage Works)..	R. H. Jeffes, Esq., C.E..	5	1	3	48	705	27·77	..
D	,, ,, (Edenfield)	W. J. Carter, Esq.	5	1	0	40	704	27·73	157
	Kingston (Palace Road)..No. 1	Charles Price, Esq.	5	0	10	30	703	27·66	164
	,, (,, ,,)..No. 2	,, ,, ,, ...	5	0	10	30	692	27·25	164
	,, (County Hall)	E. Underwood, Esq. ...	5	0	9	31	722	28·42	..
D	,, Sewage Works	F. C. Bayard, Esq. ...	5	1	0	25	789	31·06	168
D	Wimbledon (Raynes Park)	C. H. Cooper, Esq., C.E.	5	1	0	50	669	26·35	174
	,, Com. (Corner Cottage) ..	Capt. A. E. Mackenzie..	5	2	6	176	675	26·59	..
D	,, (The Downs)	F. C. Bayard, Esq. ...	5	1	1	162	706	27·80	166
D†	Richmond (The Terrace)	,, ,, ,, ..	8	1	6	109	698	27·49	168
†	,, (Kew Observatory (R)	Meteorological Office ..	11	1	9	18	719	28·30	174
D†	,, (,, ,,)	,, ,, ..	8	1	0	20	719	28·29	173
D	Barnes (Castelnau)	C F. B. Marshall, Esq.	5	1	0	25	798	31·43	170
	6.—*THAMES—Wey.* 236	*sq. mi.*							
D	Haslemere (Whitwell Hatch) ..	Marquis of Sligo	5	1	0	680	826	32·52	167
†	,, (Courts Hill).......	Miss Penfold	8	4	8	481	829	32·63	..
D	,, ...	A. G. Whitcher, Esq. .	5	1	0	552	829	*32·64*	*177*
D	,, (Hangerfield)	J. P. Trew, Esq........	5	1	1	680	818	32·22	179
D	,, (Frensham Hall) No. 1	Samuel Kevan, Esq. ...	5	0	9	475	866	34·11	157
	,, (,, ,,) No. 2	,, ,, ,, ...	5	2	3	625	886	34·89	..
D	,, (Beech Side Cott.) .	J. Jackson, Esq.	5	0	9	570	857	33·73	188
D†	,, (Hazelhurst)	Mrs. T. P. Newman ...	5	1	0	550	898	35·35	196
†	Hindhead (Stoatley Hall)	Mr. H. Simmons	5	1	0	800	815	32·08	..
	Witley (Sandhills)	L. W. Lodge, Esq.	8	1	0	450	788	31·01	184
D	,, (King Edward's School)	J. Wood, Esq.	5	1	3	330	740	29·15	186
D	,, (Great Roke)	The late Mrs. Dixon ...	5	5	6	300	714	28·11	159
D	,, (The Mount)	Mrs. J. H. Foster	5	1	0	375	791	31·13	199
D	Hascombe Place	C. T. Musgrave, Esq. ...	8	1	0	390	736	28·97	147

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	SURREY—(*continued*).		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	6.—*THAMES—Wey*—(*continued*).								
D	Cranleigh (Stonewall)	W. Welch, Esq.	5	1	0	182	741	29·17	176
D	Bramley (Grafham Grange) ..	S. A. Shepherd, Esq.	8	0	4	180	721	28·38	144
D	Ewhurst (Downhurst Lodge)...	Mr. W. Bradfield.......	5	1	0	350	737	29·03	173
	,, (Garlands)	Sir G. Johnston, Bart. ..	5	2	6	360	774	30·47	160
D	,, (Coneyhurst)	Mr. J. Russell	8	1	0	581	741	29·16	177
	,, (Woolpit)	Mr. H. W. Perrin	8	1	6	600	805	31·70	..
	Godalming (Milford House) ...	Capt. F. D. Webb	5	1	0	304	655	25·80	..
D	Shamley Green (Lee Crouch) ..	P. E. W. Street, Esq. ..	5	1	0	165	710	27·96	170
D	Godalming (Charterhouse)	O. H. Latter, Esq.	5	1	0	315	694	27·34	186
D	Peper Harow (Glebe House) ..	George Marsh, Esq. ...	5	1	0	200	713	*28·08*	*155*
	Shackleford (Hall Place)	Mr. E. Nash	8	1	6	200	716	28·20	..
	Peaslake (Dewdney)	Maj. F. G. Ogilvie, C.B.	5	1	0	532	755	29·72	..
	,, (Southcote)	H. M. Gregory, Esq. ...	5	0	10	450	788	31·04	163
D	Bramley (The Limes).........	Rev. C. J. Etty	5	1	0	136	751	29·55	166
	Wonersh (Little Tangley)	Mr. H. Crane	5	1	0	200	674	26·53	..
D	Farnham (Charleshill)	Mrs. Oliver	5	1	0	230	740	29·12	181
D	Shere (Manor House)	Sir R. M. Bray	5	1	0	350	749	29·49	168
	Albury (Dalton Hill Gardens)..	*Surrey Advertiser*		..		..	692	27·24	..
D	Abinger Hall	F. C. Bayard, Esq. ...	8	2	0	320	863	33·99	173
D	Farnham (Crooksbury Ridges)	F. R. Walters, Esq. M.D..	5	1	4	440	800	31·49	206
D	,, (Short Heath)	Morris Birkbeck, Esq. ..	5	1	0	352	780	30·73	185
D	,, (,, ,, Lodge).	Col. G. Chrystie........	5	1	0	365	746	29·38	191
	Wanborough (The Schools) ...	*Surrey Advertiser*	..	..		..	632	24·88	..
D	Seale (Great Down)	Mrs. Kitchin	12	1	0	370	768	30·22	149
	Gomshall (The Croft)	*Surrey Advertiser*		..		..	767	30·19	..
D	Guildford (Piccard's Rough) ..	H. A. Powell, Esq., M.D..	5	2	0	330	627	24·69	164
	,, (Briarfield)	Miss M. E. Swaine......	5	2	6	300	707	27·84	..
	,, (Roy.Gram.School) .	H. N. Weller, Esq.	5	1	2	200	600	23·64	..
D	,, (Newlands Corner) ..	Mr. H. Tann	5	1	6	550	714	28·10	180
D	,, (Cross Lanes)	F. F. Smallpeice, Esq.	5	0	8	200	675	26·56	169
D	Merrow (Cragie)..............	Miss Lomer	5	0	9	250	670	26·36	158
	,, (,,) ..*Paddock*...	,, ,, ...	5	0	9	250	687	27·05	158
	High Clandon	F. B. Eastwood, Esq....	5	0	6	500	722	28·42	..
D	Horsley Towers	The Earl of Lovelace ...	8	1	2	285	796	31·32	182
	Worplesdon (Perry Hill Farm) .	*Surrey Advertiser*	5	1	3	140	658	25·92	..
	,, (,, ,, Sch.)	,, ,, ...		..		..	687	27·06	..
D	,, Hill (Pinewood) ...	G. W. Hayes, Esq......	5	1	4	180	651	25·62	164
	Mayford	A. R. Ricardo, Esq.	5	1	4	145	669	26·32	..
	Ockham (Ockham School)	*Surrey Advertiser*	..	..		100	666	26·24	..
D	Woking (Hook Heath)	W. S. Patterson, Esq. ..	5	1	0	160	652	25·69	147
	,, (Northwood)	S. Price-Williams,Esq.C.E	5	1	5	114	660	25·98	153
D	,, (The Grange).........	Rev. F. Wilson	5	0	8	78	690	27·17	185
D	,, (The Green)	Mrs. Howlett	5	0	9	100	662	26·07	138
	,, (Normanhurst)	George Duffus, Esq.	5	1	6	200	668	26·29	..
D	Pyrford (Wintergreen Wood) ..	Lady Davy	6	1	0	150	642	25·26	149
D	,, (Southbourne)	C. Echlin Gerahty, Esq.	5	1	0	100	662	26·08	169
D	Horsell (The Vicarage)	Rev. Norman Pares	5	1	9	140	691	27·19	167
D	,, (Kettlewell Hill)	Claude Marzetti, Esq. ..	5	0	9	115	708	27·87	148
D	Wisley (R.H.S. Gardens)	S. T. Wright, Esq.	8	1	0	150	657	25·86	159
D	,, (West Hall Gardens)...	Mr. G. Carpenter	5	1	6	61	699	27·51	144

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	SURREY—(*continued*).		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	6.—*THAMES—Wey—(continued)*.								
D	West Byfleet (Kilmeena)	F. Littleboy, Esq.	5	1	0	100	679	26·74	164
D	,, ,, (Hollywood)	Allanson Bailey, Esq.	5	1	1	100	688	27·09	179
D	Byfleet (Woodbine Cottage)	J. E. Dowell, Esq.	5	1	1	59	670	26·39	158
D	,, Rectory	F. C. Bayard, Esq.	8	0	11	50	708	27·87	154
	Cobham (Moorlands)	W. K. Marriott, Esq.	8	1	0	170	678	26·70	..
D	Weybridge (St. George's Hill)	H. J. Bond, Esq.	5	0	8	150	704	*27·73*	*165*
D	,, (Heath Field	Miss A. T. Gardiner	5	1	0	100	759	29·88	163
D	,, (West Oaks)	A. Whittet, Esq.	5	1	0	36	710	27·96	170
	7.—*THAMES—Bourne.* 55 *sq. mi.*								
D	Brookwood (Knapp Hill)	Mr. G. C. H. Simmonds	5	1	0	181	701	27·59	185
	,, (,, ,, Lynbrook)	*Surrey Advertiser*	5	1	8	200	660	25·99	..
D	Chobham (Sandpit Hall)	K. A. H. Power, Esq.	5	1	0	100	703	27·68	171
D	,, (The Manor House)	F. A. Walter, Esq.	5	1	0	150	744	29·31	166
	Bagshot (Pennyhill Park)	*Surrey Advertiser*	..	..		..	729	28·69	..
	Chobham Com. (ValleyEndSch.)	C. H. V. Chapman, Esq.	5	0	9	200	707	27·84	..
D	Chertsey (Ottershaw)	Mrs. R. H. Otter	5	1	0	200	732	28·81	179
	,, (Long Cross)	F. A. Baker, Esq.	5	3	0	205	640	25·20	..
D	,, (BotleysParkGardens)	H. Gosling, Esq.	5	1	5	111	740	29·14	155
D	Virginia Water (S.Ann'sHeath)	Rev. J. Peck	8	1	1	120	663	26·09	169
D	Englefield Green (Queenswood)	W. G. Rigden, Esq.	8	2	0	200	786	30·93	162
	8.—*THAMES—Loddon.* 17 *sq. mi.*								
D	Frimley Green Waterworks	F. J. Garland, Esq.	5	2	6	220	610	24·02	145
D	,, ,, (Brompton San.)	A. L. Bartlett, Esq.	5	0	4	380	694	27·33	163
D	,, ,, (Ridgemount)	C. C. Haviland, Esq.	5	0	9	350	709	27·93	190
D	,, (Tomlinscote)	Mr. T. Dawson	5	1	9	200	678	26·68	196
D	Camberley (Springfield Lodge)	Lt.-Col. A. deB. V. Paget	5	1	6	350	677	26·66	153
	KENT. (Area, 1532 sq. mi.)								
	1.—*ROTHER & C.* 217 *sq. mi.*								
	Hawkhurst (Hensill)	F. Ross Thomson, Esq.	5	3	0	200	744	29·29	..
	Tenterden (Summerhill)	Mrs. Wilkin	8	1	0	150	727	28·63	167
	,, (,,)	,, ,,	5	1	0	150	740	29·12	167
	,, (Ashenden)	Major Herbert Neve	5	1	0	190	696	27·38	165
D	,, (View Tower)	J. Ellis Mace, Esq.	8	1	5	190	745	29·32	193
D	,, (,, ,,) *Snowdon*	,, ,, ,,	8	1	5	190	733	28·86	178
	Cranbrook (Hartley)	Mrs. Pile	5	1	3	405	804	31·65	..
D	High Halden (Marland)	R. Matthews, Esq.	5	1	0	..	760	29·92	145
	Biddenden (Sandpit Wood)	J. Ellis Mace, Esq.	5	1	0	218	750	29·54	..
	Dungeness	Meteorological Office	8	1	3	21	714	28·11	156
	Snave (Poplar House)	T. K. Tickner, Esq.	8	2	3	10	671	26·42	..
D	Hythe (Sandling Park)	Rt. Hon. L. Hardy, M.P.	8	1	0	160	746	29·38	147
	Sandgate	H. Evans, Esq., C.E.	5	4	0	176	721	28·39	163
D	Folkestone (Radnor Park)	A. E. Nichols, Esq., C.E.	8	6	0	127	604	23·79	158
D	,, (Cheriton Road)	J. Duncan Walker, Esq.	5	1	0	160	781	30·74	166
D	,, (Cherry Gardens)	H. T. Turner, Esq.	5	1	6	230	778	30·64	165
D	Capel (Lower Standen)	,, ,, ,,	5	2	11	250	757	29·79	155
D	,,	G. R. Lymm, Esq.	8	0	11	501	717	28·22	153
D	Dover (Water Works)	W. C. Hawke, Esq.	5	1	6	200	748	*29·44*	*138*
D	Kearsney (Chilton Farm)	,, ,, ,,	5	1	6	127	783	30·84	145

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
KENT—(*continued*).		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
2.—*STOUR & C.* 386 *sq. mi.*								
D Lyminge (Elham Valley W.W.)	H. E. Stilgoe, Esq., C.E.	5	1	6	450	771	30·34	164
D Dover(MartinMillPump.Stat.)	L. Holman, Esq.	5	11	0	298	659	25·96	154
D Kennington (Coombe Cottage)	J. C. Dell, Esq.	5	1	4	190	824	32·42	141
Ashford (EastwellPkGds.)(R.)	Mr. J. G. Weston	10	3	6	410	813	32·02	..
D Crundale (Winchcombe Farm)	W. Higgs, Esq.	5	5	0	350	811	31·94	175
D Charing Pumping Station	L. Holman, Esq.	5	1	0	593	702	27·65	142
Deal and Walmer W.W. ...M	A. Mantle, Esq.	12	1	0	110	697	27·43	..
D ,, ,, ,, ,,	,, ,,	5	1	0	110	694	27·33	163
D Great Mongeham Rectory	Rev. W. H. Rammell	5	1	8	100	647	25·48	155
D Kingston Rectory	Rev. F. N. Style	5	1	0	165	824	32·45	136
D Eastry (Brewery)	T. Nevill Cheatle, Esq.	5	0	10	85	715	28·15	147
D Sandwich (Upton House, Word)	Capt. W. Elwin Napier	5	1	0	32	677	26·65	144
D Molash (Wytherling Court)	H. Murton, Esq.	5	1	3	376	866	34·09	139
D Chilham (Lower Ensden)	F. Ivo Neame, Esq.	5	4	10	223	801	31·55	154
Wingham (Margate W.W.)	Mr. W. R. Hosking	5	1	0	138	776	30·54	144
Canterbury (Oaten Hill Ho.)	Miss Carr	5	1	3	50	735	28·93	..
,, (Medical Hall)	A. Lander, Esq.,*per*M.O.	5	0	11	40	722	28·43	141
,, (Irrigation Works)	C. Terry, Esq., C.E.	5	2	6	15	760	29·92	151
D ,, (St. Thomas' Hill)	P. J. Spillett, Esq.	5	0	6	230	854	33·63	163
D Wickhambreux(The Willows)	A. Baird, Esq.	5	0	8	22	716	28·18	175
Minster (Gas Works)	W. Thomson, Esq., C.E.	5	1	0	60	730	28·73	..
D Ramsgate (Southwood W. W.)	,, ,, ,,	8	1	0	169	650	25·57	151
D† ,, (Archer House)	Miss L.M.Wainwright	5	0	11	75	639	25·14	157
D†Broadstairs (Providence House)	Cecil Hamersley, Esq.	5	2	0	50	665	26·19	164
D Reculver	Allington Collard, Esq.	5	5	2	27	662	26·06	146
D† St. Peter's	Rev. H. C. V. Snowden	5	0	9	140	660	25·98	169
D† ,, , Court	A. J. Richardson, Esq.	5	1	0	135	589	23·19	155
Birchington (Hollydene)	W. Tomlin, Esq., Junr.	6	6	0	75	704	27·71	..
,, (Rose Bank)	Mr. G. Hoare	5	5	0	45	689	27·14	..
† ,, (Fernleigh)	R. Grant, Esq.	5	1	2	50	694	27·32	161
D Margate (Cliftonville)	C. J. Pemble, Esq.	5	1	0	53	582	22·91	146
3.—*SWALE & C.* 167 *sq. mi.*								
D Selling (Luton)	F. Ivo Neame, Esq.	5	4	9	263	823	32·41	155
Bicknor Rectory	Rev. E. W. Edwards	5	1	6	517	766	30·16	..
D Ospringe (Lorenden)	Walter C. Stunt, Esq.	5	1	6	180	726	28·58	143
D Teynham (New Gardens)	Col. J. F. Honeyball	5	1	5	30	654	25·75	144
Faversham (Uplees Marshes)	W. J. Wright, Esq.	5	4	4	9	504	19·84	..
D Whitstable (Western Ho.) No.1	J. W. Hayward, Esq.	5	0	10	17	612	24·08	143
D ,, (,, ,,) No.2	,, ,, ,,	5	0	11	17	620	24·40	143
Herne Bay (Water Works)	J. Roberts, Esq.	5	1	0	130	698	27·48	..
†Sheppey (Eastch'ch, Old Rides)	H. C. Warren, Esq.	5	2	0	40	699	27·52	..
4.—*MEDWAY.* 506 *sq. mi.*								
D Woodchurch (Hengherst)	Capt.Somerset Webb	5	1	0	152	711	28·00	162
D Kilndown School	J. A. Ager, Esq.	5	1	0	365	797	31·38	145
Scotney Castle	E. W. Hussey, Esq.	5	3	9	203	727	28·63	..
D Goudhurst (Maypole)	G. Parker Hinds, Esq.	8	1	8	412	768	30·24	142
D ,, (Lidwells)	Rev. H. P. FitzGerald	5	1	0	260	732	28·81	176
,, (Brandfold)	Dr. Douglas	5	2	0	238	789	31·06	153
D Horsmonden(BroadFordHouse)	Mrs. L. E. Maude	5	1	0	96	777	30·59	173

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground	Height Above SeaLevel			
	KENT—(*continued*).							
	4.—*MEDWAY*—(*continued*).		*in.*	*ft. in.*	*feet*	*mm.*	*inches*	
D	Biddenden (Augustus Villa)	E. Donne, Esq.	5	0 8	175	711	28·00	151
D	Tunbridge Wells(Hawkenbury)	D. W. Horner, Esq.	5	1 6	435	868	34·16	164
D	,, ,, (ShandonCourt)	Mr. C. R. Pratt	5	1 8	427	868	34·16	180
D	,, ,, (TheWhite Ho.)	Miss Monica Robins	5	1 1	..	843	33·19	151
D	,, ,, (Calverley Pk.)	Dr. W. Stamford	5	1 0	356	797	31·38	168
D	,, ,, (Courtlands(R)	E. Weldon, Esq.	8	5 6	470	835	32·89	156
D†	Speldhurst (Etherton Hill)	E. W. Winton, Esq.	5	1 5	282	810	31·91	157
D	Pembury Waterworks	W. H. Maxwell, Esq.,C.E	8	1 8	196	758	29·85	166
D	PaddockWood(MatfieldGrange)	J. A. Perkin, Esq.	5	0 9	370	831	32·73	172
	,, ,, (,,)	D'Arcy W. Reeve, Esq.	5	1 0	321	822	32·35	..
D	Southborough (The Old Hall)	G. H. Beecheno. Esq.	5	1 0	375	839	33·05	146
D	Edenbridge (Falconhurst)	Hon. Mrs. John Talbot	5	1 6	375	902	35·52	169
D	Markbeech (Edells)	Miss M. F. Pearse	5	1 0	320	713	28·08	215
D	,, (High Buckhurst)	Edmund Dean, Esq.	5	1 0	400	828	32·61	189
D	ChiddingstoneHoath(Truggers)	Alsager Vian, Esq.	5	0 8	360	890	35·05	184
	Staplehurst(CoppwilliamFarm)	J. Norris, Esq.	5	1 4	100	701	27·61	174
D	Penshurst Park	Mr. J. M. Sturgess	5	0 9	265	688	27·09	165
D	Tonbridge (Mabledon Park)	J. F. W. Deacon, Esq.	5	1 2	190	775	30·51	147
	,, (Brooklands)	G. J. Kimmins, Esq.	5	0 10	120	796	31·34	156
	,, (Pinnacles)	A. H. Neve, Esq.	5	1 0	140	751	29·57	182
	,, (,,)	M ,, ,, ,,	5	1 0	140	754	29·67	..
D	Hadlow Place	C. J. G. Hulkes, Esq.	5	1 0	80	738	29·05	196
D	Hildenborough(Hollanden Ho.)	C. H. Scott, Esq.	8	1 0	100	728	28·65	180
D	Ulcombe Place	A. O. Walker, Esq.	5	1 0	350	671	26·40	162
D	Linton Park	Mr. C. Pratt	5	0 8	..	745	29·33	163
D	Langley (Rumwood Court)	Mr. W. J. Gould	5	1 9	354	769	30·26	181
D	Otham (Synyards)	Ambrose Boyson, Esq.	5	1 0	315	771	30·35	178
D	Leeds (Schoolhouse)	H. E. Bridge, Esq.	5	1 0	217	703	27·66	161
D	Wateringbury (The Limes)	Alan Lambert, Esq.	5	3 0	130	738	29·04	183
D†	Sevenoaks (River Hill)	Lt.-Col. J.M. Rogers, D.S.O.	8	4 0	535	822	32·35	193
D	,, (Soar Farm,Plaxtol)	H. Stonham, Esq.	5	3 0	300	839	33·02	151
D	Maidstone (Lower Tovil)	Lawrence Green, Esq.	5	1 0	30	712	28·03	184
D	,, (W.W., Barming)	W. J. Ware, Esq., C.E.	5	1 6	250	742	29·22	170
D†	,, (Brenchley Gardens)	T. F. Bunting, Esq. C.E.	5	0 9	50	734	28·91	178
D†	,, (Mill Street)	,, ,, ,,	8	6 0	38	722	28·42	169
D	East Malling (Broadwater)	C. B. Mercer, Esq.	5	1 6	169	786	30·94	172
	Maidstone (Allington Lock)	Mr. W. Smith	5	1 0	45	748	29·46	143
	,, (,, Nursery)	Messrs. G. Bunyard & Co.	5	1 6	112	726	28·60	..
D†	Detling (The Croft)	R. Cooke, Esq.	5	1 2	330	827	32·57	202
D	,, (,, ,,)	,, ,, ,,	5	1 0	330	830	32·68	202
	,, (Pollhill Fields)	M ,, ,, ,,	5	1 0	..	801	31·52	..
	Halling Pumping Station	L. Holman, Esq.	5	1 0	75	682	26·85	..
D	Rainham (Mardale House)	Dr. F. W. H. Penfold	5	1 0	85	697	27·44	151
D	Chatham (Luton W.W.)	W. Coles Finch, Esq.	5	3 0	88	681	26·82	145
D	Rochester (Knights Place)	Miss F. H. Pye	5	3 0	320	725	28·54	141
	Strood Water Works	W. Banks, Esq., C.E.	5	3 0	112	687	27·04	158
D	Frindsbury (The Shrubbery)	Warwick Stunt, Esq.	5	1 6	150	645	25·39	147
	,, (Stonehouse Farm)	E. W. Wood, Esq.	5	5 0	20	677	26·64	..
	Grain	W. Gillon, Esq.	8	1 0	17	413	16·26?	..
D	Hoo St. Mary(St.Mary'sHall)	H. Pye, Esq.	5	5 6	146	609	23·98	153

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level	1917		
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
KENT—(*continued*).								
5.—*THAMES—Darent.* 256 *sq. mi.*								
D†Westerham (Quebec Square)	Met. Water Board	5	1	0	380	915	36·01	163
D† ,, (HillPumpingStat.)	,, ,, ,,	5	1	0	539	876	34·50	177
D Sevenoaks(Kippington Grange)	Sir Douglas Fox, C.E.	5	1	0	530	879	34·60	143
† ,, (TonbdgeRd.Res.) M	A. Grainger, Esq.	5	1	6	556	857	33·76	..
D† ,, (The Old House)	W. Tattersall, Esq.	8	4	0	510	900	35·42	188
D ,, (Speldhurst Close)	Rev. D. D. Mackinnon	5	1	0	470	842	33·14	188
D†Tatsfield (Betsom Hill)	Met. Water Board	5	0	7	820	894	35·18	165
†Seal (St. Lawrence Reservoir)	A. Grainger, Esq.	8	1	0	665	872	34·35	..
† ,, (Oak Bank Reservoir)	,, ,, ,,	8	1	0	550	857	33·73	..
† ,, (Wildernesse Gardens)	Mr. J. Shelton	5	1	0	300	807	31·78	167
† ,, (Kemsing Pumping Statn.)	A. Grainger, Esq.	5	1	0	292	862	33·93	..
D Sevenoaks (Chevening Gardens)	Mr. J. C. Sutton	5	1	0	360	900	35·45	174
D†Knockholt (Kent Waterworks)	Met. Water Board	5	1	0	785	850	33·47	153
D Otford (Beechy Lees)	Mr. R. Edwards	5	0	10	480	952	37·49	185
Down (Petleys)	Miss Murton	5	0	11	..	801	31·55	..
D ,, (Council School)	A. J. Ridge, Esq.	5	0	8	500	866	34·11	201
D Chelsfield (Woodlands)	A. T. Waring, Esq.	5	4	4	400	792	31·16	178
D Keston (Forest Lodge)	F. C. Bayard, Esq.	5	1	0	300	813	32·02	159
D West Wickham(WickhamCourt)	,, ,, ,,	5	1	2	300	758	29·85	152
D Hayes (Hayes Place)	,, ,, ,,	8	1	0	350	687	27·06	149
D†Orpington(Kent Waterworks)	Met. Water Board	5	1	0	220	779	30·66	166
Meopham (The Chestnuts)	Jesse Garratt, Esq.	5	2	0	290	682	26·83	139
D Cobham (Sole Street House)	J. Scratton, Esq.	5	1	8	311	729	28·71	*155*
,, (Scaler's Hill)	A. W. Booth, Esq.	5	1	10	300	745	29·32	..
D Bromley Common (Elmfield)	Rev. J. P. Faunthorpe	5	0	9	240	693	27·27	160
D Bickley (Sunnydene)	Sir J. Wrench Towse	5	1	0	227	749	29·48	149
D ,, (Farrants) (R)	L. E. Chalmers, Esq.	8	3	6	300	743	29·24	159
D Bromley (Hazelcroft)	Rev. H. A. Soames	5	1	0	180	697	27·45	158
D ,, (King's Avenue)	A. Malden, Esq.	5	1	6	180	704	27·70	160
,, (Freeland Road)	MessrsEngland&Furness	..		..	..	707	27·83	..
D ,, (The Palace)	F. C. Bayard, Esq.	5	1	0	187	717	28·24	153
,, (Gilbert Road)	Edward Kinder, Esq.	5	1	0	200	724	28·49	..
D Beckenham (Croydon Road)	J. A. Angell, Esq., C.E.	8	1	0	110	798	31·42	182
D Chislehurst (Hawkwood)	F. C. Bayard, Esq.	5	1	0	300	762	29·99	139
D Sidcup (Beech View)	Miss Darrell	5	0	10	..	731	28·79	158
D Southfleet (Kent Waterworks)	Met. Water Board	5	1	0	82	638	25·12	150
D Wilmington(,, ,,)	,, ,, ,,	5	1	0	25	626	24·66	140
D Dartford (West Hill House)	F. C. Bayard, Esq.	5	1	3	100	753	29·63	149
D Higham Waterworks	C. H. Clarke, Esq.	8	1	0	142	726	28·58	161
,, (Oakleigh)	C. Lake, Esq.	5	1	2	25	584	23·01	..
D Erith (Crossness)	London County Council	14	0	6	16	605	23·81	148
SUSSEX. (Area, 1458 sq. mi.)								
1.—*LAVANT & C.* 175 *sq. mi.*								
D†Selsey (Large Acres)..*Field g.*	E. Heron Allen, Esq.	5	1	0	25	601	23·67	174
D† ,, (,, ,,)..*Snowdon*	,, ,, ,,	5	1	0	25	617	24·30	174
D†Bognor	A. G. Thompson, Esq., C.E.	8	1	0	21	623	24·52	151
D† ,, (Albert Road)	H.L.F.Guermonprez,Esq.	8	1	0	20	651	25·63	151
†Felpham (Outerwyke)	F. J. Neale, Esq.	8	1	0	8	590	23·21	151
Bognor (Shripney)	R. A. Briggs, Esq., C.E.	5	1	0	25	674	26·53	..
,, (Lidsey Lodge)	H. Neale, Esq.	8	1	2	25	650	25·59	135

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
SUSSEX—(*continued*).								
1.—*LAVANT & C.*—(*continued.*)								
†Arundel (Bonhams, Yapton)	W. Harrison, Esq.	5	1	0	24	653	25·72	141
† ,, (Drove Farm, ,,)	,, ,, ,,	5	1	0	14	610	24·00	141
D Chichester (Westgate)	G. Ashley Tyacke, Esq.	8	0	6	40	682	26·83	154
D ,, (Summersdale)	Rev. H. J. Peckham	5	1	0	100	704	27·73	170
,, (West Broyle Gdns.)	T. Weller-Poley, Esq.	5	1	4	107	671	26·40	..
D West Bourne [Emsworth]	Rev. L. B. Birkett	5	1	0	50	722	28·42	182
D Funtington	J. A. Greenwood, Esq.	5	1	0	95	708	27·88	137
West Stoke Rectory	Rev. Preb. W. F. Shaw	5	1	0	176	731	28·77	139
D Chichester (Goodwood Gardns.)	Mr. F. Brock	5	1	3	133	817	32·16	180
D ,, (Watergate House)	W. M. Christy, Esq.	5	1	0	236	804	31·66	178
,, (West Dean Park)	Mr. W. H. Smith	10	1	6	190	852	33·53	141
,, (Chilgrove)	Miss Woods	5	0	6	284	806	31·74	..
D Compton House [Petersfield]	Miss K. B. Langdale	5	1	0	255	883	34·77	176
2.—*ARUN.* 285 *sq. mi.*								
D†Littlehampton (Met. Station)	R. E. Booker, Esq.	5	1	0	10	610	24·00	154
†Tortington House	Mrs. Travers	5	0	8	50	694	27·32	..
D†Patching	Mrs. Drewitt	5	1	0	180	788	31·04	142
West Chiltington (Gaywood)	E. Burney-Young, Esq.	5	0	8	134	782	30·78	..
Cocking Rectory	Mrs. Randall	5	1	0	400	818	32·19	162
D Elsted (Telegraph House)	The Earl Russell	5	1	0	625	880	34·66	137
Bepton (Linch Farm)	G. Eames, Esq.	5	0	8	276	897	35·31	159
Selham (Selham House)	C. C. Lacaita, Esq.	5	1	0	115	795	31·29	136
Stedham (Rotherhill)	Dr. W. A. Wills	8	0	8	170	838	33·00	..
D Rogate (Durford Abbey Farm)	J. Harmsworth, Esq.	5	4	0	156	812	31·97	158
Easebourne (Hollist)	Nigel V. Combe, Esq.	5	0	10	107	856	33·71	..
D Petworth Park Gardens	Mr. E. W. Pull	5	1	0	182	764	30·06	142
Tillington (River House)	Hon. Lady Cunliffe	5	1	0	230	694	27·31	144
Lodsworth	Lt. Col. E. O. Hollist, R.A.	8	2	0	230	659	25·95	141
Midhurst (K. Edward VII. San)	T. L. Evans, Esq. *per* M.O.	5	1	0	480	786	30·95	180
Wisbough Green (Lowfold)	B. de F. Osmaston, Esq.	5	1	6	120	649	25·56	..
D Linchmere (Borden Wood)	E. G. Lamb, Esq.	8	1	0	260	850	33·48	158
,, (Hollycombe)	J. C. Hawkshaw, Esq.	8	6	6	550	866	34·09	..
D Fernhurst (Blackdown House)	Lady Philipson Stow	5	1	0	550	792	31·20	166
D Lower Beeding (The Warren)	Leicester M. Reed, Esq.	5	0	10	430	780	30·73	141
D Horsham (Christ's Hospital)	A. E. Johnson, Esq.	8	1	0	170	723	28·47	150
D† ,, (Wimblehurst)	Miss E. M. Allcard	5	1	0	195	751	29·58	178
3.—*ADUR & C.* 237 *sq. mi.*								
D†Rottingdean School	G. Mason, Esq.	5	1	0	120	712	28·01	143
D†Worthing (Victoria Park)	Dr. R. H. Wilshaw	8	1	0	36	647	25·49	147
†East Preston (Bay Trees)	Rev. J. B. Orme	5	0	9	25	694	27·31	163
D Worthing (Broadwater)	Edwin Apted, Esq.	5	5	6	30	662	26·05	154
D†Brighton (Old Steyne)	D. Forbes, Esq., M.D.	5	1	0	32	690	27·18	158
D†Hove (Marine Park)	Dr A. Griffith	8	1	0	25	620	24·42	155
D†BrightonWW(Goldstone Bot.)	J. Johnston, Esq., C.E.	8	0	7	140	669	26·34	152
D† ,, ,, (Shoreham)	,, ,, ,,	8	1	9	12	724	28·49	164
D† ,, ,, (UpperPortslade)	,, ,, ,,	8	1	3	167	780	30·70	164
D† ,, ,, (Race Hill Res.)	,, ,, ,,	8	1	0	466	760	29·92	165
†Preston(TheKnowle,Withdeane)	P. J. Trouncer, Esq.	8	1	3	100	793	31·23	..
D†Falmer (Brighton W. W.)	J. Johnston, Esq. C.E.	8	1	8	209	767	30·20	184
D†Patcham (,, ,,)	,, ,, ,,	5	1	6	207	836	32·93	176

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	SUSSEX—(*con.*)								
	3.—*ADUR & C*—(*con.*)								
D	Bramber (Burletts)	Hatton G. Sugden, Esq.	5	3	6	75	854	33·62	165
	Steyning (Crescent Road)	Mr. H. J. Hide	5	1	0	80	824	32·46	141
D	Washington Vicarage	Rev. A. H. S. Pattrick	5	1	0	251	788	31·01	170
	Hurstpierpoint (Danny Park)	Mr. J. J. Bunney	8	1	3	180	938	36·93	..
D	Ditchling	E. A. Martin, Esq.	5	2	0	220	851	33·50	156
D	Wykehurst Park Gardens	Mr. T. Tyson	5	1	6	360	737	29·03	142
D	Cuckfield (Hilfield House)	Miss A. K. O'Brien	5	1	0	300	816	32·12	172
	,, (Workhouse)	Mr. E. Gosden, *per* M.O.	8	1	0	389	685	27·02	..
D	,, (Henmead Hall)	Mrs. Maxwell Campbell	5	3	5	365	741	29·18	182
	Lower Beeding (Leonardslee)	Sir E. G. Loder, Bart.	5	1	0	270	706	27·78	..
	4.—*OUSE.* 224 *sq. mi.*								
D	Seaford College	Col. F. W. Savage, V.D.	5	1	6	38	718	28·28	150
D	,, (Bowden House School)	J. F. Thomas, Esq.	5	1	0	190	757	29·81	162
D	Newhaven (Poverty Bottom W.W.)	F. W. Laughlin, Esq.	8	1	1	51	762	30·02	151
D	Lewes (Little Dene)	Miss B. Brand	8	0	11	93	864	34·02	177
	,, (Cobbe Place)	Sir Albert F. A. Bosanquet	5	0	8	50	772	30·38	..
D	,, (W.W., Kingston)	A. Wells, Esq.	8	1	3	13	915	36·01	188
D	Isfield Place	Major H. King	5	1	0	41	776	30·53	162
	,, ,, *weekly g.*	,, ,,	5	1	0	41	775	30·52	..
	,, ,, *monthly g.*	,, ,,	5	1	0	41	779	30·66	..
D	,, ,, (R)	,, ,,	6	1	0	41	740	29·35	170
	Framfield (High Cross)	Maj. R. Lawrence Thornton	5	0	9	195	780	30·70	..
D	Newick Rectory	Mrs. C. Powell	5		5	134	679	26·72	166
D	Haywards H'th (S. Wilfrid's Par.)	Mr. J. E. Shirley	5	1	0	300	790	31·10	173
D	Buxted Park	Hon. H. B. Portman	8	1	0	94	858	33·76	189
	,, (Strawberry Hall)	C. Rintoul, Esq.	5	1	0	180	784	30·88	178
D	Mayfield (Five Ashes)	Miss Emily Aston	5	1	5	300	810	31·88	197
D	Lindfield (Gravelye)	Lewis Weedon, Esq.	5	2	0	177	718	28·26	197
D	,, (Boys' School)	H. Woolcock, Esq.	5	1	0	113	838	33·01	226
D	Ardingly (Lywood House)	G. Forrester Scott, Esq.	5	0	9	240	826	32·52	191
D	,, (Brook House)	H. R. G. Clarke, Esq.	8	1	0	240	827	32·56	161
D	,, (Wakehurst Place)	G. W. E. Loder, Esq.	8	1	3	437	909	35·77	195
D	Horsted Keynes (Birchgrove)	Miss G. C. Price	5	0	9	400	755	29·71	178
D	Balcombe (The Gables)	Mr. G. J. Warren	8	1	3	358	856	33·68	192
D	,, (Stockcroft)	R. Newton, Esq.	5	1	1	341	860	33·86	184
D	,, (Waterworks)	F. Martin, Esq., C.E.	8	1	0	471	900	35·42	156
	5.—*CUCKMERE & C.* 189 *sq. mi.*								
D	Beachy Head	W. A. Ogden, Esq.	6	1	7	506	750	29·53	143
D†	Eastbourne (Wilmington Sq.)	Dr. W. G. Willoughby	5	1	0	39	812	31·98	170
	,, (Staveley Cross)	J. Weston, Esq.	5	1	6	110	817	32·17	179
†	,, (Arundel Road)	J. C. Wright, Esq.	5	1	0	70	873	34·37	..
†	,, (Ocklynge Cemet'y)	C. Montague Wood, Esq.	5	3	6	171	822	32·38	..
D	West Dean	A. J. Howard, Esq.	8	1	0	112	735	28·93	176
D	Jevington (Church Farm)	,, ,, ,,	8	0	9	274	691	27·22	160
	Litlington (Plough & Harrow Inn)	,, ,, ,,	8	1	0	19	736	28·98	..
D	Willingdon Sewage Farm	T. E. Varley Kirtlan, Esq	5	1	0	24	816	32·11	147
D	Pevensey Pumping Station	,, ,, ,, ,,	5	1	0	12	742	29·22	155
D	,, Bay Pumping Stat.	,, ,, ,, ,,	5	1	0	7	804	31·64	155
	Berwick Railway Station	*Sussex Daily News*	..	..		..	705	27·74	..
†	St. Leonards (Gensing Gardens)	H. Colborne, Esq. *per* M.O.	8	1	0	179	767	30·20	186

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	SUSSEX—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	5.—*CUCKMERE & C.*—(*con.*)								
	Hailsham Vicarage	Rev. F. Clyde Harvey	5	1	0	105	794	31·28	..
D	,, (Magham Down)	late W. E. Bear, Esq.	5	1	0	90	703	27·67	152
D	Hastings (Newgate)	(R) P. H. Palmer, Esq., C.E.	8	5	6	240	813	32·02	149
	,, (Halton Reservoir)	,, ,, ,,	8	0	10	301	784	30·86	152
	,, (Fairlight Reservoir)	,, ,, ,,	8	0	10	517	737	29·01	147
D†	,, (Cemetery)	Walter Field, Esq.	5	0	8	478	760	29·93	162
D	Ninfield (Hazard'sGreenPmp.St)	C. P. King, Esq.	8	0	10	74	699	27·53	186
	Battle (Crowhurst Park)	Mr. E. Carpenter	5	1	0	480	813	32·00	..
	,, (Forewood W.W.)	P. H. Palmer, Esq., C.E.		..		100	745	29·31	176
D	Horeham Road (Coxlow)	Miss P. C. Harrison	5	1	0	260	741	29·16	167
D	,, Grange	W. F. Beauford, Esq.	5	1	2	260	774	30·47	174
D	,, Rd. (Hollycroft Cott.)	J. Hamlin, Esq.	5	1	0	300	813	32·01	162
D	Heathfield (The White Cottage)	J. F. Leigh Clare, Esq.	5	1	3	500	839	33·05	161
D	,, (South Ridge)	P. Lennox Wright, Esq.	8	1	3	560	855	33·67	167
	6.—*ROTHER.* 194 *sq. mi.*								
	Icklesham Vicarage	Rev. Philip Houghton	5	0	6	110	722	28·43	..
D	Winchelsea (Mariteau House)	C. W. Campion, Esq.	5	1	0	120	813	32·00	172
	Brede Waterworks	P. H. Palmer, Esq., C.E.	8	1	0	50	661	26·02	162
	Udimore (The Hammonds)	J. G. Mair-Rumley, Esq.	8	1	0	144	709	27·92	144
D	Beckley (Little Harmers)	B. E. de N. Ramus, Esq.	5	1	0	150	893	35·14	152
D	Heathfield (Tottingworth Park)	Mr. J. Masson	5	1	0	500	871	34·31	160
D	Northiam (Great Dixter)	Nathaniel Lloyd, Esq.	8	1	0	210	789	31·05	188
D	Mayfield (Bishopstone)	A. G. Robins, Esq.	5	1	0	430	828	32·59	169
D	Wadhurst (The Olives)	Miss Edith P. Luck	5	1	0	380	834	32·84	169
D	Hurst Green (Boarzell)	Sir F. W. Fison, Bart.	8	1	0	270	753	29·65	162
	Ticehurst House	H. H. Newington, Esq.	5	4	9	423	588	23·15?	..
	7.—*MEDWAY.* 117 *sq. mi.*								
D	Crowborough (Jarvis Brook)	Crowborough Water Co.	5	1	0	325	885	34·83	166
D	,, (Uckfield Lodge)	J. J. S. Driberg, Esq.	8	1	0	796	930	36·61	194
D	,, (Te Whare)	Miss Hames	5	1	0	796	1009	39·73	262
D	Wadhurst (LowerCousleyWood)	F. Wilkin, Esq.	5	1	0	416	774	30·48	165
†	Forest Row (Wych Cross Place)	D. W. Freshfield, Esq	5	0	10	600	827	32·56	..
D†	,, ,, (Hindleap Lodge)	Mr. A. Adam	5	1	6	620	884	34·82	157
D	Coleman's Hatch (Holly Hill)	J. MacAndrew, Esq.	5	1	0	355	907	35·72	161
D	Eridge Green (Danegate)	Sir H.G.Walpole, K.C.B.	5	0	10	400	860	33·87	172
D	Frant (Henley House)	Rev. E. Malden,	5	1	6	440	843	33·19	186
D	,, (Eridge Castle)	Mr. A. Wilson	5	1	0	400	917	36·11	158
	,, (Highfield)	C. M. R. Cleeve, Esq.	5	2	3	413	867	34·13	140
D	Forest Row (Courtmead)	G. Worthington, Esq.	5	0	8	275	943	37·11	166
D	CrawleyDown (The Grange)	T. H. W. Buckley, Esq.	5	1	0	430	883	34·77	179
D	East Grinstead (Highfields)	G. Mason, Esq.	5	0	9	400	816	32·11	162
D	,, ,, (BrockhurstObsy.)	F. J. Hanbury, Esq.	8	1	0	435	883	34·78	186
	8.—*THAMES—Mole.* 27 *sq. mi.*								
D	Worth (South Hill)	Miss R. M. Ravenshaw	8	1	6	558	952	37·47	199
D	,, (Worth Lodge)	C. W. Nix, Esq.	5	3	0	340	884	34·82	191
	9.—*THAMES—Wey.* 10 *sq. mi.*								
D	Ripsley [Liphook]	W. D. Bosanquet, Esq.	5	1	0	400	848	33·39	174

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
HAMPSHIRE. Area, 1622 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*ISLE OF WIGHT.* 150 *sq. mi.*								
D†Ventnor (Flint Cottage)	J. S. Ineson, Esq.	5	1	0	99	598	23·56	156
D ,, (Royal National Hos.)	Miss M. Gibson	5	1	0	60	582	22·89	174
D Shanklin	E. C. Cooper, Esq., C.E.	8	1	0	184	641	25·22	147
D Sandown (Free Library)	C. E. Gilchrist, Esq. ...	8	1	0	30	677	26·66	183
Brighstone Rectory	Rev. E. W. Silver	5	1	1	100	596	23·48	..
Totland Vicarage.............	Mrs. Hall	5	0	11	150	611	24·04	..
D† ,, Bay (Aston House) ...	J. Dover, Esq.	8	1	3	145	642	25·26	145
D†Ryde (NewLodge,S.John'sPk.)	Mrs. Dobie	5	1	1	147	711	28·01	179
,, (Perivale)	Major E. C. Murray	5	1	3	193	740	29·15	152
† ,, (Pier Street)	G. Nicholson, Esq. ...	12	9	7	35	662	26·08	..
D† ,, (Beldornie Tower)	P. Craven Hall, Esq. ...	5	1	0	30	604	23·78	174
†Wootton (Fernhill)	C. Gordon Brodie, Esq.	8	0	6	118	685	26·96	..
D Binstead (Quarr Hill)	Dr. J. Winthrop Woodruff	5	0	10	100	641	25·25	161
D East Cowes (Spring Hill)	G. Shedden, Esq.	5	1	0	121	693	27·29	155
D Cowes W. W. (Broadfields) ..	J. W. Webster, Esq., C.E.	5	0	10	161	709	27·91	144
D ,, (Upper Moor Green) ...	J. G. K. Day, Esq.	5	4	0	160	739	29·08	164
2.—*STOUR.* 32 *sq. mi.*								
†Bournemouth (PleasureGardns)	C. Dales, Esq.	5	1	0	41	744	29·31	165
D† ,, (West Cliff).....	Rev. G. A. Rideout	5	1	0	145	732	28·81	158
D† ,, (Rodney House)	S. Hyla Greves, Esq. ...	5	1	0	145	672	26·46	158
,, (,, ,,)M	,, ,, ,, ...	5	1	0	145	696	*27·40*	..
† ,, (Vale View)	C. Dales, Esq.	5	1	0	145	710	27·96	166
D†Christchurch (Heron Court) ..	The Earl of Malmesbury	5	1	2	25	805	31·68	150
3.—*EAST AVON & C.* 114 *sq. mi.*								
D†Christchurch (Winkton Lodge)	Miss Lassell	5	1	0	34	715	28·14	180
Ringwood (West Mount)	R. F. Williams, Esq. ...	5	1	0	100	779	30·68	173
D Fordingbridge (Cuckoo Hill) ..	Heywood Sumner, Esq.	5	1	0	150	776	30·56	171
,, (Dockens)	Rev. E. W. Poore	8	0	6	..	773	30·42	148
D ,, (Oaklands)	S. B. Rake, Esq.	8	1	0	135	756	29·77	195
4.—*TEST & SOLENT.* 551 *sq. mi.*								
D Milford-on-Sea (Salt Grass) ...	A. C. G. Heygate, Esq. .	5	1	0	6	668	26·29	144
,, ,, (Milford House)	E. L. Agar, Esq.	5	0	8	23	671	26·41	146
D Lymington (The Salterns)	P. A. Ouvry, Esq.	5	1	0	4	745	29·35	157
D Milton (Wootton Hill)	J. A. Harman, Esq.	5	2	6	198	762	29·99	156
Burley (Manor House)	Col. F. Willan	5	1	4	210	753	29·63	..
D Fawley (Cadland)	Mr. L. Smith	8	4	6	52	826	32·53	170
Hythe (The Garth, Dibden) ..	P. C. Crossley, Esq. ...	8	1	0	136	815	32·07	..
D ,, (Heathfield, Dibden) ...	Mr. Jesse Reeves.......	5	1	3	127	857	33·76	170
†Lyndhurst (Cuffnells)	R. G. Hargreaves, Esq.	5	1	0	195	876	34·59	..
Marchwood (Byams)..........	Maj. H. J. G. Lloyd ..	5	1	0	0	689	27·14	..
†Fritham (Fritham House)	H. H. S. Northcote, Esq.	5	1	0	399	865	34·07	..
Southampton (East Park)	Col. C. F. Close, C.M.G.	8	1	0	65	763	30·04	165
,, (Shirley)	J. A. Crowther, Esq., C.E.	5	6	0	70	755	29·71	147
,, (Common Res.)..M	E. C. Rodda, Esq., C.E.	5	1	0	193	812	31·99	..
D Cadnam (Copythorne House) ..	N. M. Lawrence, Esq. .	5	3	0	140	873	34·36	169
Romsey (Stanbridge Earls) (R)	Mrs. Hansard..........	..	3	0	137	857	33·75	..
D ,, (Timsbury) ......(R)	D. Kitchingman, Esq. C.E.	8	1	8	96	796	31·34	181
D West Dean Rectory	Rev. E. Wells	5	1	0	149	845	33·26	172
West Tytherley (Buckholt) ...	R. J. Townshend, Esq.	5	0	11	410	901	35·48	179

DIVISION II.—SOUTH EASTERN COUNTIES.—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
HAMPSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
4.—*TEST* & *SOLENT—con.*)								
†Horsebridge (BossingtonHouse)	W. H. Deverell, Esq.	8	0	9	92	867	34·12	177
D†Ashley Old Manor House	Legh S. Powell, Esq.	5	1	3	235	851	33·49	177
D† ,, (Upper Somborne)	Mr. Charles Alleway	8	1	0	250	816	32·14	162
D†Broughton	W. Steele Tomkins, Esq.	5	1	3	125	874	34·41	160
D†Stockbridge(Houghton Lodge)	Mr. G. Morris	5	1	0	190	852	33·56	164
D Barton Stacey (Moody'sDown)	H. J. Gardiner, Esq.	5	1	3	230	750	29·53	167
D Abbot's Ann Rectory	Rev. F. de Paravicini	5	0	10	220	759	29·89	164
D Andover Sewage Works	C. Jerome, Esq.	8	0	8	..	711	28·00	162
D Fyfield Rectory	Rev. E. K. R. Reynolds	5	1	5	250	776	30·56	182
D St. Marybourne (Bournside)	Prof. C. V. Boys, F.R.S.	5	1	2	300	794	31·26	163
D Oakley Rectory	Rev. F. G. Hume	5	1	6	365	710	27·97	162
D ,, (Malshanger)	Major G. Walter	5	1	0	400	687	27·03	150
,, (Manydown Park) (R)	S. E. Bates, Esq.	..	1	8	415	703	27·69	..
HurstbourneTarrant(Rookery)	R. E. C. Burder, Esq.	5	1	0	331	874	34·40	..
Vernham Dean (Rowe House)	Adm.E.H.Gamble, C.B.	5	0	7	650	803	31·60	..
5.—*ITCHEN & SPITHEAD.* 417 *sq. mi.*								
D Alverstoke (MoncktonHouse)	Capt. J. Blake	5	1	6	15	681	26·82	148
†Portsmouth (Eastney)	A. W. Ward, Esq. C.E.	8	0	9	16	589	23·17	..
D† ,, (Victoria Park)	Dr. A. Mearns Fraser	5	1	0	18	659	25·93	153
D Hayling Island (Richmond Ho.)	E. S. McEuen, Esq.	5	1	2	16	623	24·51	150
D Porchester (Noel Cottage)	Miss Montgomerie Frost	5	2	0	..	590	23·23	152
D Fareham (Burpham House)	W.S. Stevenson, Esq., M.D.	5	1	6	30	779	30·68	158
D ,, (The Mount)	H. R. Pink, Esq.	5	1	0	250	683	26·88	155
D ,, (Roche Court)	Mrs. H. F. Rawstorne	5	1	0	104	824	32·42	166
D Warsash (Hook Vicarage)	Rev. C. B. Lloyd	5	1	2	60	726	28·60	163
D†Havant (Farlington)	H. Ashley, Esq., C.E.	5	1	0	77	636	25·03	151
† ,, (,,) M	,, ,, ,,	5	1	0	77	647	25·47	..
D† ,,	,, ,, ,,	5	1	0	25	649	25·56	154
† ,, M	,, ,, ,,	5	1	0	25	656	25·83	..
Cosham (Purbrook Grange)	Miss F. A. Deverell	8	0	9	100	923	36·34	150
D Netley (Lake House)	Miss Pennington	8	1	0	54	778	30·62	175
D Cowplain (Forest View)	H. C. Pearson, Esq.	5	5	0	222	811	31·92	171
Wickham (The Lower House)	Mj.-Gen.SirCHPowellKCB	5	1	0	100	819	*32·24*	..
,, (Park Place)	Lt.-Col. H. R. Farquhar	5	1	0	150	856	33·72	167
Southampton (Chapel)	J. A. Crowther,Esq.,C.E.	5	6	0	10	743	29·25	152
,, (Portsdown)	,, ,, ,,	5	2	0	10	781	30·76	150
D Botley (Fairthorne Manor)	Mr. D. F. Lailey	8	1	0	70	868	34·17	215
D ,, (Hedge End)	Mrs. T. H. Philpott	8	1	1	178	833	32·81	168
† ,, (Brook House)	Beckett Powell, Esq.	5	3	2	45	855	33·67	..
† ,, (Rectory)	Rev. G. E. C. Osborne	5	1	0	50	790	31·12	..
D† ,, (Botley Hill)	Lady Jenkyns	5	1	6	36	840	33·06	172
D†Curdridge (Beechcroft)	Miss L. M. S. Pasley	5	1	0	96	834	32·85	189
D ,, (Kitnocks House)	Maj. C. F. Randolph	5	0	6	190	816	32·12	171
D Catherington (St. Catherines)	Capt. R. H. Archer,R.N.	5	1	3	370	816	32·12	172
D Soberton (Mislingford)	E. T. Hildred,Esq.,C.E.	5	1	0	136	816	32·11	158
,, (,,) M	,, ,, ,,	5	1	0	136	809	31·85	..
Chalton (Woodcroft)	Capt. C. J. P. Cave, R.E.	5	1	0	230	907	35·71	..

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
HAMPSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
5.—*ITCHEN & SPITHEAD*—(*con.*)								
D BishopsWaltham(ThePalaceHo)	A. F. Hardy, Esq.	5	1	3	116	803	31·60	171
,, ,, (SwanmoreHo)	W. H. Myers, Esq. ...	8	1	0	390	975	38·39	157
D Droxford (Uplands)	Miss Bridge	5	1	0	279	878	34·57	194
D ,, (Fairfield House)....	H.Hamilton Bridge,Esq.	5	1	0	254	891	35·08	209
D ,, (Fir Hill)...........	Cpt.Mackenzie-Grieve,RN	5	3	6	212	850	33·46	170
Chandlers Ford (Fryern)	Miss Grace Stuart	5	1	2	150	712	28·05	..
D†Petersfield (Ditcham Park) ...	Capt. C. J. P. Cave,R.E.	8	1	0	555	897	35·31	171
† ,, (Downley)......M	,, ,, ,, ,,	5	1	2	374	913	35·96	..
D Otterbourne House	E. Christian, Esq.	5	1	2	111	862	33·95	175
D ,, (W.W.,Shawford)	E. C. Rodda, Esq., C.E.	5	1	0	113	821	32·31	164
Westbury House Gardens	Cl.H.LeRoyLewis,CB,DSO	5	2	10	296	896	35·28	..
Winchester (Owslebury House)	W. Welsh, Esq.	5	1	0	365	758	29·83	153
D Twyford (Pumping Station) (R)	D.Kitchingman, Esq.C.E.	8	1	9	139	774	30·50	147
D ,, (Mallards Close)	G. R. Marsh, Esq. ...	5	1	0	153	814	32·06	159
D Hursley Park .... (R)	Sir G. A. Cooper, Bart...	10	1	0	220	692	27·23	178
Kilmeston Manor	Mrs. Heathcote	5	4	6	323	887	34·92	..
Petersfield (Broadhanger)	Mrs. R. M. Caulfeild ...	5	1	0	730	973	38·29	..
D Winchester (St. Giles' Hill) ...	Mrs. Wilde	5	1	0	250	772	30·38	157
,, (,, ,,) M	,, ,, ...	5	1	0	215	762	30·02	..
† ,, (Northgate Place)..	*Hampshire Chronicle*....	8	1	3	180	827	32·57	167
D Ropley (The Vicarage)	Rev. H. W. C. Geldart .	5	0	6	350	772	30·41	176
D Ovington Rectory............	Rev. H. F. LaM.Stowell	5	1	0	221	844	33·21	157
,, (Barley Down)	J. Stevens, Esq.	12	3	6	300	808	31·83	180
Itchenstoke Rectory	Rev. V. E. Skrine	5	1	0	200	765	30·11	153
D Itchen Abbas (Chilland).......	W. J. Arnold, Esq.	5	1	3	200	766	30·14	177
6.—*ARUN*. 32 *sq. mi.*								
†Petersfield (Sunwood) .... M	Capt. C. J. P. Cave, R.E.	5	0	10	479	906	35·69	..
,, (The Miscombe) M	, ,, ,,	5	1	1	250	916	36·05	..
,, (Buriton House) ...	L.G.Bonham Carter,Esq.	5	1	9	293	838	32·98	..
,, (Nursted) ...... M	Capt.C.J.P.Cave, R.E.	5	1	0	270	827	32·56	..
D ,, (Weston)	Capt. P W. Seward	5	1	0	330	914	36·00	166
,, (TheMount,Ramshill)	F. G. Padwick, Esq.....	8	1	0	250	844	33·24	170
D Liss (Overcombe)	Miss Jebb	5	1	0	500	778	30·64	181
D ,, (Highfield)	J.S.Gamble,Esq.,CIE.,FRS	5	0	9	325	871	34·29	197
D ,, (The Lodge)	Ernest Latter, Esq. ...	5	1	3	240	853	33·59	171
D ,, (Kippences)	Rev. W. A. H. Thorold .	5	0	9	250	820	32·27	139
D Greatham (King's Holt).......	Mrs. Chase Parr........	5	1	7	325	808	31·82	137
,, (Manor House)	F. Coryton, Esq.	5	0	7	250	857	33·74	152
D ,, (Le Court)	Sir Heath Harrison, Bart.	5	0	6	420	880	34·64	187
7.—*THAMES—Wey*. 97 *sq. mi.*								
D Liphook (Fowley)............	E. A. Lee, Esq.........	5	0	10	296	895	35·25	174
East Tisted (Rotherfield Park).	Serj. W. H. Yates, R.E.	5	1	0	550	1005	39·58	198
D ,, ,, Rectory	Rev. Roland Errington .	5	1	0	437	718	28·28	144
D Newton Valence Vicarage	Rev. A. C. Maclachlan .	5	1	0	586	874	34·43	186
D Selborne (The Wakes)	Col. A. Bibby	5	1	0	400	909	35·77	195
D†Grayshott	Mrs. Lyndon	5	1	0	661	858	33·77	204
D Headley (Eveley)	Mr. T. Carter	5	1	3	295	820	32·27	152
Liphook (Bordon Camp)	TheDivisionOfficer,R.E.	8	1	0	268	567	22·33?	..
Alton (Manor House Gardens) .	*Hampshire Chronicle*......		..		..	835	32·86	174
,, (Shalden Manor)	J. Gathorne Wood, Esq.	8	3	0	594	905	35·65	195
Alice Holt Forest	A.Simpson,Esq.,*per* M.O.	..		..	264	732	28·81	177

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	HAMPSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	8.—*THAMES—Loddon.* 164 *sq. mi.*								
D	Warren Corner [Farnham]	F. Wilkin, Esq.	5	1	0	560	728	28·67	177
D	Upton Grey (Hoddington Ho.)	Lord Basing	8	1	0	378	867	34·12	159
D	Aldershot (Sewage Works)	Mr. J. Edwards	5	1	0	231	812	31·97	205
	Greywell	F. J. Garland, Esq.	5	2	6	266	608	23·94?	..
D	Basingstoke (Upper Natley)	Mrs. Wolferstan	5	1	0	285	711	28·00	172
	,, (Queen Mary's Sch.)	W.H.Pick,Esq.*per*M.O.	5	1	0	289	709	27·91	158
D	,, (Pumping Station)	W.A.Drummond,EsqC.E.	5	0	6	320	717	28·23	160
D	Sherborne St. John Rectory	Rev. D. W. Chute	5	1	2	267	689	27·13	177
D	,, ,, (West End)	Rev.H.C.SloaneStanley	5	0	11	250	701	27·62	192
	South Farnborough	Meteorological Office	8	1	0	234	670	26·38	182
D	Winchfield (Elvetham Park	Mr. G. B. Mitchison	8	1	0	217	733	28·85	185
D	Hartley Grange	F. Walkinshaw, Esq.	8	1	0	219	697	27·45	154
D	Strathfieldsaye Rectory	Rev. F. Page-Roberts	5	1	0	164	755	29·72	184
D	Heckfield (Park Corner)	Miss Martineau	5	1	2	257	743	29·25	171
	9.—*THAMES—Kennet.* 65 *sq. mi.*								
D	Kingsclere (The Rookery)	Dr. R. Maples	5	3	0	327	814	32·05	145
	BERKSHIRE, (Area, 722 sq. mi.)								
	1.—*TEST.* 2 *sq. mi.*								
	2.—*THAMES—Bourne.* 15 *sq. mi.*								
	3.—*THAMES—Loddon & c.* 162 *sq. mi.*								
D	Wellington College	W. G. Collett, Esq.	5	1	0	283	751	29·57	172
D	,, ,, (Woodside)	Mr. W. J. Townsend	8	2	9	240	705	27·74	166
D	Crowthorne (Firholt)	A. H. Hobhouse, Esq.	5	1	0	307	724	28·51	181
D	Finchampstead (West Court)	late C. E. Harris-St. John, Esq.	5	1	0	180	663	26·12	143
D	Ascot (Winkfield Manor)	C. A. Ferard, Esq.	5	1	0	240	774	30·46	185
D	Wokingham (Fieldhouse)	H. C. Mylne, Esq.	5	1	0	220	732	28·83	184
	,, (Pinewood)	Medical Supt., *per* M.O.	8	1	0	215	653	25·71	148
D	Winkfield (Ryemead)	Mrs. Aubrey Elliott	5	0	10	220	722	28·42	186
D	Warfield (Hawthorndale)	Col. G. H. Burges	5	1	0	207	740	29·15	177
D	Windsor (Royal Gardens)	Mr. A. MacKellar	5	1	0	88	728	28·64	184
D	,, (Osborne Road)	Miss M. G. Cookson	8	1	0	88	707	27·83	166
	Maidenhead (Heywood Park)	Greville H. Palmer, Esq.	8	1	0	102	682	26·85	..
D	,, (Hall Place)	Sir G. A. C .East, Bart	8	2	2	275	709	27·92	161
	Remenham Hill (Wedmore)	Mrs. Burnell	5	0	6	350	747	29·40	156
D	Bisham Vicarage	Rev. W. Farrer	5	1	0	100	665	26·20	160
D	Temple House [Marlow]	Mrs. Owen Williams	5	1	0	106	764	30·07	187
	4.—*THAMES, Kennet & c.* 224 *sq. mi.*								
	Hampstead Marshall (Redhill)	Mrs. Lewis	5	1	0	400	761	29·97	..
	Mortimer (Wokefield Park)	A. Palmer, Esq.	5	4	0	220	710	27·96	150
D	Brimpton (Stonehouse)	F. Hadden, Esq.	5	0	7	350	738	29·06	155
D	,, (Littlepark)	Lt.-Col. W. Y. Langford	5	1	0	345	693	27·30	138
	Newbury (Sandleford Priory)	Mrs. Myers	8	2	0	381	790	31·10	151
D	,, (GreenhamCommon)	H. L. Bowman,Esq.D.Sc	5	1	0	328	787	30·99	158
	,, (Grammar School)	H. Liggins, Esq.	5	0	9	279	718	28·25	143
D	Bucklebury Place	Dr. Carl Langer	5	1	0	409	755	29·74	140
D	Beenham House	Capt. W. Waring	8	2	3	315	715	28·15	157
	Reading (Leighton Pk. School)	C. I. Evans, Esq.*per*M.O.	5	1	0	265	652	25·67	159
D	,, (Northcourt Avenue)	R. Osmond, Esq.	5	1	0	213	687	27·06	165

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	BERKSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	4.—*THAMES, Kennet & c.*—(*con.*)								
D	Reading W.W. (Bath Road)	L. C. Walker, Esq., C.E.	5	1	8	218	653	25·70	149
D	,, (Forbury Gardens)	J. Bowen, Esq., C.E.	5	1	5	145	701	27·59	159
D	,, (University College)	Prof. W. G. Duffield	5	1	0	152	674	26·52	155
	,, (Victoria Square)	W. Haynes, Esq.	5	1	6	145	695	27·36	166
	,, (Caversham Lock)	R. A. Swarbrick, Esq.	5	3	5	124	597	*23·50*	..
	Lambourn (Clarionville)	F. Gullett, Esq.	5	1	6	500	754	29·70	149
	5.—*THAMES—Ock & c.* 319 *sq. mi.*								
D	Reading (Englefield)	J. H. Benyon, Esq.	5	1	1	175	756	29·76	153
D	Frilsham House	Mr. W. E. Austen	5	1	0	370	731	28·79	156
D	Yattendon Court	Mr. F. Pitman	5	0	10	440	718	28·27	135
	Hampstead Norris	John Brown, Esq.	5	1	0	300	731	28·78	165
	Wallingford (Aston Tirrold)	J. Harold Slade, Esq.	5	1	1	250	549	21·63	..
D	Upton	Miss Fry	5	1	0	240	648	25·50	174
	,, (Prospect House)	C. S. Grant, Esq.	5	1	0	250	684	26·94	170
D	Wantage (Ginge Manor)	Miss Elliot	5	1	0	332	717	28·24	175
	,,	W. Hanson, Esq. *per* M.O.	5	1	0	314	673	26·50	146
	Steventon (Milton Hill)	R. H. Betteridge, Esq.	5	1	6	300	670	26·39	141
D	Wallingford (Woodlea)	G. F. Slade, Esq.	5	0	6	200	632	24·88	135
	,, Castle	Miss Hedges	5	1	0	175	664	26·16	..
D	,, (Shillingford Hill)	Lt.-Col. G. Hart Dyke	5	1	4	218	667	26·26	169
	Little Wittenham	J. Latham, Esq.	5	2	0	189	544	21·41	..
D	Abbots Wittenham Rectory	Rev. W. F. B. Ward	5	1	0	190	574	22·58	159
	Long Wittenham (Manor Ho.)	Adm. W. R. Clutterbuck	12	1	0	170	640	25·20	..
D	,, ,, (Willington)	H. J. Hewett, Esq.	5	1	0	167	647	25·46	153
D	Faringdon (Bleak House)	Miss Turner	5	1	0	367	657	25·85	175
D	Abingdon (The Square House)	E. Estridge, Esq.	5	1	9	180	620	24·42	161
	,, (Twickenham House)	G. Saxby, Esq.	5	10	0	210	574	22·61	..
	,, (Sewage Works)	G. Winship, Esq., C.E.	5	0	6	169	577	22·70	..
D	,, (Union	Mr. J. Fray	5	1	0	196	588	23·13	139
	,, (Fitzharris)	Mrs. Blakeney	8	0	10	185	536	21·09	..
	,, (Donnington)	R. W. Langford, Esq.	5	7	0	196	631	24·83	144
	,, (Northcourt House)	M. T. Tatham, Esq.	5	1	0	190	601	23·66	..
	Hinton Waldrist	Capt. F.C. Loder Symonds	5	3	6	331	649	25·56	..

DIVISION III.—SOUTH MIDLAND COUNTIES.

	MIDDLESEX. (Area, 232 sq. mi.)								
	1.—*THAMES—Colne & Brent.* 185 *sq. mi.*								
D	Shepperton Lock [Weybridge]	R. A. Swarbrick, Esq.	5	1	0	41	714	28·12	150
D	Sunbury (Sunbury Lodge)	F. A. Wallroth, Esq.	5	3	9	38	698	27·48	161
D	Shepperton (Charlton Court)	Met. Water Board	8	1	0	40	768	30·25	174
D†	Hampton	,, ,, ,,	8	1	0	50	645	25·41	172
D	Staines (Belle Vue)	J. Gundry, Esq.	5	1	0	51	746	29·35	161
D	,, Reservoir	Met. Water Board	5	1	0	50	718	28·26	174
D	Twickenham (Sewage Works	F. W. Pearce, Esq., C.E.	5	1	7	37	684	26·93	162
D	Houslow (S. Stephen's Vicarage)	Rev. R. Dixon Box	5	1	0	67	687	27·06	181
	Isleworth (Mandeville House)	A. Worsley, Esq.	8	1	0	24	858	33·77	*171*
	Sipson (Hollycroft)	Mr. W. J. Mitchell	5	1	0	95	660	25·97	..
D†	Kew Bridge (Waterworks)	Met. Water Board	8	1	0	37	708	27·89	175

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level	1917		
MIDDLESEX—(*con*).		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*THAMES—Colne & Brent—(con.)*								
D Chiswick (Grove Park)	A. E. Brounger, Esq.	5	1	1	18	715	28·14	165
D ,, (Sewage Works)	E. Willis, Esq.	8	3	6	24	775	30·51	152
D Ealing (Webster Gardens)	H. M. Baker, Esq.	5	1	6	97	758	29·83	169
D† ,, (St. Stephen's Road)	H. W. Peal, Esq.	5	0	10	156	736	28·96	171
† ,, (HangerHillReservoir)	Met. Water Board	5	1	0	..	625	24·60	..
D Uxbridge (Frays Lodge)	J. C. Hibbert, Esq.	5	1	3	125	778	30·61	184
D†Willesden Reservoir	Met. Water Board	5	1	0	199	691	27·19	159
D† ,, Green (Strode Road)	Miss Lamport	5	1	0	150	732	28·82	169
D ,, (Stoneb'dgeFarm)(R)	O. C. Robson, Esq., C.E.	10	5	9	100	663	26·12	147
D Highgate (North Hill)	L. J. Tatham, Esq.	5	1	0	400	740	29·14	170
D ,, (,, ,, Depôt)	E.J.LovegroveEsq.,C.E.	5	5	4	309	704	27·72	169
D Harrow(BessboroughRd.Depôt)	J. P. Bennetts, Esq.C.E.	5	1	0	215	753	29·66	176
D†Golders Green(Highfield Av.)	A. E. Payne, Esq.	5	1	0	175	702	27·63	173
D†Hendon Sewage Works (R)	S. S. Grimley, Esq.	6	1	8	153	603	23·73	150
D† ,, (Central School)	C. W. Butler, Esq.	5	1	4	200	900	35·43?	183
Wealdstone House	Miss H. O. E. Cobb	5	0	11	236	649	25·57	..
Harefield (Harefield House)	Walter J. B. Byles, Esq.	5	0	8	290	750	29·54	..
†Northwood (Haslemere)	Miss McBean	5	1	0	240	713	28·06	..
D Harrow Weald (Hill House)	A. Crossman, Esq.	5	3	6	284	747	29·42	175
D North Finchley	Miss M. Shoults	5	0	8	295	742	29·23	163
D†Mill Hill (Cleveland)	Mrs. Stewart King	5	1	0	400	745	29·32	188
Dyrham Park [Barnet]	Mr. H. Juniper	5	1	0	310	697	27·43	..
D Potters Bar (Mount Grace)	J. Forbes, Esq.	5	1	0	380	758	29·84	173
D† ,, ,, (Little Heath)	Henry Ellis, Esq.	5	1	0	375	742	29·23	153
2.—*THAMES—Lea.* 47 *sq. mi.*								
D Crouch End (Barrington Road)	E.J.Lovegrove,Esq.,C.E.	8	3	10	122	763	30·03	177
D Harringay(WightmanRd.Depôt)	,, ,, ,,	8	23	3	113	608	23·95	155
D Highgate (Avenue Road)	C. S. Nicholson, Esq.	5	1	0	212	780	30·73	162
Tottenham (Drayton Road)	Urb.Dist.Council*per*M.O.	5	1	3	51	673	26·50	148
D†Hornsey (High Street)	Met. Water Board	5	1	0	109	718	28·25	174
†Muswell Hill (Grand Avenue)	G.MichaelWilliams,Esq.	5	1	0	317	759	29·88	*176*
D ,, ,, (,, ,,)	Miss Abethell	5	0	8	410	820	32·27	178
D ,, ,, (Sewage Farm)	E.J.Lovegrove,Esq.,C.E.	8	4	5	214	738	29·04	179
D Alexandra Pk. (Grove Avenue)	Ernest A. Lee, Esq.	5	1	0	235	715	28·15	166
D Wood Green (Maryland Road)	Mr. F. C. Hornsey	6	1	0	110	697	27·46	166
D ,, ,, (Town Hall) (R)	C. H. Croxford, Esq.	8	5	6	126	560	22·05	157
D†Finchley (Victoria Park)	H. Catchpole, Esq., C.E.	5	1	0	272	750	29·53	171
D ,, (Etchingham Park)	Mrs. J. W. Scott	5	1	2	295	753	29·63	186
†Palmers Green(Broomfield Pk.)	D. S. Sutherland,Esq.C.E.	8	1	1	138	704	27·72	157
D Ponders End (Bylock Hall)	H. E. Freir, Esq.	5	1	0	50	657	25·85	181
D† ,, ,, Pumping Station	Met. Water Board	8	1	0	45	645	25·39	160
D†Enfield (Southbury Road)	,, ,, ,,	5	1	0	223	657	25·86	160
D ,, (Public Offices)	Dr. W. P. Warren	8	43	0	141	628	24·72	167
D† ,, (CarisbrookeCullodenRd.)	J. McEwan, Esq.	5	1	0	204	691	27·22	168
D ,, (Clay Hill)	G. H. C. Lea, Esq.	5	1	0	200	693	27·29	174
D ,, (Roselands, Turkey St.)	E. S. Rashleigh, Esq.	5	0	7	80	637	25·07	164
Sewage Works [Waltham]	J. E. Sharpe, Esq.	5	1	0	61	596	23·45	..
D Potter's Bar (North Lodge)	Lady Gundry	5	1	0	332	652	25·66	153

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground		Height Above SeaLevel	1917		
HERTFORDSHIRE.	(Area, 635 sq. mi.)	*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*THAMES—Thame.* 10 *sq. mi.*)								
D Tring (Grove Lodge)	H. G. P. Boyson, Esq.	8	1	0	450	837	*32·97*	*179*
D ,, (Pendley Manor)	Mrs. Williams	5	2	0	420	838	32·99	181
2.—*THAMES—Colne.* 199 *sq. mi.*								
D Gate House [Northwood]	O. S. Holt, Esq.	8	4	6	448	773	30·42	169
D Rickmansworth(CroxleyGreen)	S. Ingleby Oddie, Esq.	5	0	7	250	716	28·17	136
D†Totteridge (West Lodge)	W. H. Newman, Esq.	5	1	0	390	738	29·04	157
D†Elstree (Aldenham House) (R)	Mr. E. Beckett	10	4	9	305	698	27·50	157
D Watford (Oxhey Grange)	J. Doyle Penrose, Esq.	5	1	0	295	698	27·48	150
D ,, (Bushey Hall Road)	J. Durst, Esq.	5	1	2	230	749	29·47	174
†Bushey (Colne Valley W.W.)	C. P. Sinclair, Esq.	5	1	0	200	697	27·44	..
D†Watford (London Orphan Sch.)	Rev. E. Hartley-Parker	5	1	0	230	776	*30·55*	*165*
D† ,, (Park Road)	E. J. Slinn, Esq.	5	1	6	263	705	27·76	165
D† ,, (Weetwood)	J. Hopkinson, Esq.	5	1	0	269	755	29·74	182
† ,, (,,) M	,, ,,	5	1	0	269	751	29·56	..
D†Shenley (Kitwells)	T. H. Riches, Esq.	5	1	0	420	747	29·41	159
,, (,,) M	,, ,, ,,	5	1	0	420	719	28·29	..
Sarratt (Goldingtons) (R)	P. Clutterbuck, Esq.	8	3	6	380	687	27·04	..
†Chipperfield (Little Callipers)	A. W. Rivington, Esq.	5	1	0	407	778	30·63	..
D†King's Langley (Langley Rise)	T. Goldring, Esq.	5	1	0	360	764	30·10	153
,, ,, (Barnes Lodge)	J. C. Shorrock, Esq.	5	1	0	350	801	31·55	159
D London Colney (Bowmans)	C. Barwell Field, Esq.	5	1	0	235	724	28·51	178
D Hemel Hempstead(ApsleyMills)	Messrs. J. Dickinson & Co.	24	1	4	260	751	29·55	174
D St. Albans (Hill End Asylum)	G. Goodchild, Esq.	5	1	0	295	656	25·82	136
D ,, (County Museum)	J. Hopkinson, Esq.	5	1	0	389	716	28·21	174
D ,, (Jennings Road)	M. L. Nicholas, Esq.	5	1	6	380	699	27·53	185
D†Berkhamsted (Anglefield)	E. T. Browne, Esq.	5	1	0	450	806	31·72	173
Tring (Cowroast Lock)	W. Yates, Esq.	5	3	8	394	818	32·22	..
D Childwickbury Gardens	Mr. T. Nutting	8	1	0	400	808	31·83	158
D Gt.Gaddesden(GoldenPars'nage)	Elliott Kitchener, Esq.	8	1	0	536	794	31·27	174
Harpenden (Rothamsted)	Lawes Agricultural Trust	5	0	9	420	713	28·07	170
D ,, (,,)	,, ,, ,,	8	0	9	420	701	27·59	186
,, (,,)	,, ,, ,,	72x87	0	9	420	776	30·56	182
3.—*THAMES—Lea.* 340 *sq. mi.*								
D New Barnet (Gas Works)	F. J. Bancroft, Esq., C.E.	8	1	0	217	706	27·78	160
D ,, ,, (Green Hill Park)	Mr. W. Lockyer	5	1	10	289	780	30·72	170
D Barnet (Summerhill)	F. A. Milne, Esq.	5	0	10	400	701	27·61	171
D ,, (Bedford Avenue)	Miss Haines	5	1	3	350	773	30·42	185
D Cheshunt (Manor House)	J. E. Sharpe, Esq.	5	1	0	83	631	24·83	171
D ,, (Goff's Oak House)	W. M. Cuningham, Esq.	5	1	0	310	627	24·67	165
D† ,, Yard	Met. Water Board	5	1	0	100	609	23·99	172
D ,, (DarnicleHillPump.Stn.)	J. E. Sharpe, Esq.	5	1	0	250	664	26·13	159
D Northaw (St. Just)	Miss Poland	5	1	0	400	784	30·87	194
D†Broxbourne (Stafford House)	A. F. Newbery, Esq.	5	1	0	118	638	25·12	174
D†Hoddesden (Feilde's Weir)	Met. Water Board	8	3	8	95	620	24·41	157
D Haileybury (Hailey House)	P. H. Latham, Esq.	5	1	0	260	637	25·09	168
D ,, College	E. A. Campbell, Esq.	8	1	0	270	632	24·89	178
D Gilston Park	Mr. E. Leach	8	1	0	175	674	26·55	145
D Hatfield (Holwell House)	Wilfrid E. Laurie, Esq.	5	1	6	240	642	25·29	159
D ,, (Surveyor's Office)	J. S. Killick, Esq., C.E.	5	1	0	270	662	26·08	158
D Hertford (Bayfordbury)	H.W.ClintonBaker,Esq.	8	1	2	250	616	24·25	171

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	HERTFORDSHIRE—(*con.*)								
	3.—*THAMES—Lea—*(*con.*)								
D	Stanstead Abbots	E. H. Barlow, Esq.	5	1	2	115	625	24·60	157
D†	Hertford (Sewage Works)	Met. Water Board	5	1	0	117	616	24·24	165
D†	Ware (Red House)	,, ,, ,,	5	1	0	115	589	23·17	170
D†	,, (Chadwell Spring)	,, ,, ,,	5	1	0	140	625	24·59	165
D	Wareside Vicarage	J. W. B. Higgens, Esq.	5	1	0	201	632	24·89	166
D	Welwyn (Codicote Lodge)	Mr. F. A. Akers	5	1	0	340	720	28·33	171
D	Much Hadham	T. Woodham Mott,Esq.	5	1	0	212	650	25·61	177
D	Bishop Stortford (Thorley)	Laurie Frere, Esq.	5	0	8	182	663	26·10	186
D	,, ,, (Hadham Road)	H. Sheppard, Esq.	5	1	0	300	657	25·86	144
D	Standon	F. H. Wace, Esq.	5	1	0	385	599	23·57	141
D	Bennington House	Miss E. A. Parker	5	1	0	406	692	27·24	193
†	,, Lordship	A. F. Bott, Esq.	5	0	10	365	699	27·53	171
D	Little Hadham(Hadham Hall)	W. Minet, Esq.	5	0	10	338	609	23·96	147
	Buntingford(Westmill,ColesPk.)	T. Greg, Esq.	5	1	0	379	606	23·85	..
D	Hitchin (Preston)	R. de V. Pryor, Esq.	8	2	5	480	749	29·50	166
D	Weston Park	M. R. Pryor, Esq.	5	0	8	470	729	28·72	165
D	FurneauxPelham(TheBrewery)	G. W. Bindloss, Esq.	5	1	0	300	694	27·33	170
D	Buntingford(ThrockingHallFm)	Rev. B. W. Harvey	5	1	0	450	699	27·54	162
D	Royston (Therfield Rectory)	Rev.H.R.Humphreys	5	1	0	513	753	29·64	153
	4.—*OUSE.* 86 *sq. mi.*								
D	Offley (School House)	C. W. Mears, Esq.	5	1	0	526	825	32·50	147
D	,, Vicarage	Rev. E. P. Gatty	5	1	6	525	850	33·48	153
D	Graveley Rectory	Rev. R. E. C. Walker	5	0	10	325	731	28·77	162
D†	Hitchin (The Chilterns)	F. Ransom, Esq.	5	1	0	300	720	28·34	179
D	,, (Chiltern Road)	A. Latchmore, Esq.	5	1	0	297	697	27·44	168
D†	,, (High Down)	Miss E. Pollard	5	1	1	422	813	32·02	178
D	,, (Roxley House,Willian)	Mrs. H. Bendixson	5	1	6	370	595	23·42?	146
D	Letchworth (Garden City)	A.W.E.BullmoreEsq.C.E.	5	1	0	218	705	27·75	154
D	,, (Gernon Road)	A. W. Brunt, Esq.	5	1	0	290	677	26·66	179
	,, (Broadway)	W. Steen, Esq., M.D.	5	1	0	310	687	27·04	..
D	Royston (Barley)	W. W. Cook, Esq.	5	1	0	300	743	29·24	161
D	,, (Earlshill House)	J. Phillips, Esq.	8	1	6	225	701	27·61	170
	BUCKINGHAMSHIRE.	Area, 743 sq. mi.							
	1.—*THAMES—Cherwell.* 30 *sq. mi.*								
	2.—*THAMES—Thame.* 158 *sq. mi.*								
D	Wendover (Halton Gardens)	Mr. G. A. Cryer	5	1	10	400	815	32·07	172
D	Weston Turville (Yaxley Lodge)	Miss Morris	5	1	1	335	652	25·67	141
	,, ,,	G. Eland, Esq., *per* M.O.	5	1	0	314	682	26·85	152
D	Bulbourne [Tring]	W. Yates, Esq.	5	2	3	401	764	30·10	155
	Mentmore Gardens	Mr. J. MacGregor	5	1	2	400	707	27·84	..
	3.—*THAMES—Wye & c.* 129 *sq. mi.*								
D	Eton (Tangier Islands)	E. A. Stickland, Esq.	5	1	0	67	682	26·85	152
†	Slough (Upton)	MR. Bentley, Esq.	8	2	0	80	630	24·81	..
D†	,, (,,)	,, ,, ,,	5	2	0	78	670	26·37	190
D	,, (Hencroft Street)	C. Sainty, Esq., C.E.	5	1	0	91	690	27·18	174
	Taplow (Hitcham Grange)	Hon. C. S. Irby	5	0	9	200	660	25·97	..
	Burnham (Burnham Cottage)	G. J. Williams, Esq.	5	3	0	182	642	25·29	..
	Farnham Royal (The Chase)	F. C. Carr-Gomm, Esq.	5	3	0	169	719	28·32	..
	Stoke Poges (Stoke Court)	H. Allhusen, Esq.	8	1	4	196	677	26·67	..

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	BUCKINGHAMSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*THAMES*—*Wye & c.*—(*con.*)								
D	Greenlands[Henley-on-Thames]	Lord Hambleden	5	1	3	116	728	28·65	145
D	Hedsor	Lord Boston	8	1	0	170	810	31·89	143
D	Bourne End (The Bourne)	A. Morse, Esq.	5	1	0	240	804	31·67	154
D	Marlow (Thames Bank)	S. H. Wright, Esq.	8	2	0	105	916	36·06	197
D	High Wycombe	H. S. Wheeler, Esq.	5	0	11	253	780	30·71	185
D	,, (Roy.Gram.Sch.)	R. Matthews, Esq.	8	1	0	545	724	28·52	181
D	Penn (Rayners)	Sir P. F. Rose, Bart.	5	1	3	547	804	31·67	165
D	Hampden House	Earl of Buckinghamshire	5	1	0	690	782	30·79	168
	4.—*THAMES*—*Colne.* 133 *sq. mi.*								
D	Slough (Langley)	R. H. Major, Esq.	8	0	10	85	731	28·79	143
D	ChalfontStPeter(ChalfontPark)	Mr. G. Barrell	5	1	0	201	793	31·22	162
D	Chalfont St. Giles (The Stone)	Col. R. W. Phipps	5	1	0	270	757	29·79	166
	,, ,, (,,) M	,, ,, ,,	5	1	0	270	755	*29·74*	..
D†	Amersham (St.Mary'sSch.) *No.* 1	W. Garton, Esq.	5	1	9	340	788	31·03	164
D	,, (,, ,, *No.* 2	,, ,, ,,	5	1	0	340	802	31·56	175
D†	,, (The Plantation)	G. Weller, Esq.	8	1	0	464	830	32·66	181
D	,, (Latimer Ho. Gdns.)	Mr. W. Stephens	8	1	7	400	860	33·84	184
	Chesham Bois Rectory	Rev. J. H. Fitzpatrick	5	0	11	530	765	30·12	..
	5.—*OUSE.* 293 *sq. mi.*								
D	Oving House	H.Yates Thompson,Esq.	5	1	0	515	699	27·53	171
	,, ,, M	,, ,, ,,	5	1	6	515	692	27·25	..
D	Wing (Burcott)	Richard H. Ayres, Esq.	5	1	6	407	696	27·42	142
D	Winslow (Norden House)	Dr. T. F. Vaisey	5	0	9	..	688	27·09	139
D	Addington (C. of E. School)	J. H. Webster, Esq.	5	0	8	350	653	25·70	162
	StockgrovePk. [Leighton Buz.]	Mr. J. Clues	5	1	2	500	720	28·35	147
D	Buckingham (Adstock Fields)	W. Weston, Esq.	5	0	9	352	659	25·93	170
D	StonyStratfd.(CalvertonLimes)	Mrs. Hawkins	5	1	8	230	666	26·23	142
D	Wolverton (St. George's Vic.)	Rev. Canon W.L.Harnett	5	1	0	270	618	24·32	176
D	,, (The School House)	H. J. Hippsley, Esq.	5	1	0	264	608	23·94	176
	,, (Council School)	,, ,, ,,	5	5	0	263	604	23·77	..
D	Newport Pagnell (The Croft)	F. Littleboy, Esq.	5	2	0	191	637	25·07	172
	OXFORDSHIRE. (Area, 756 sq. mi.)								
	1.—*SEVERN*—*Upper Avon.* 10 *sq. mi.*								
D	SibfordFerris(WoolmanCottage)	Joshua Lamb, Esq.	5	1	0	590	666	26·22	147
	Sibford Gower	O. Hooper, Esq.	5	1	4	600	707	27·83	*162*
	2.—*THAMES*—*Windrush & c.* 261 *sq. mi.*								
D	Kencot Rectory	Rev. H. E. Cooper	5	1	0	290	702	27·65	184
	Charlbury (Cornbury Park)	Mr. B. Campbell	5	1	0	435	770	30·32	..
D	,, (Wychwood House)	late J. H. Glen, Esq.	5	0	8	450	673	26·48	198
D	Wootton Rectory	Rev. F. R. Marriott	5	0	10	370	696	27·41	153
D	Lyneham	R. de M. Pratt, Esq.	5	1	7	351	730	28·73	163
	Glympton Park	Mrs. Barnett	12	2	6	..	623	24·51	..
D	Chadlington (Langston House)	Lt.-Col.F.W.Schofield CMG	5	0	11	420	690	27·17	..
	Sarsden Gardens	Mr. J. E. Vine	5	0	10	538	621	24·45	..
D	Chipping Norton (Bungalow.)	T. H. Burbidge, Esq.	5	1	0	700	731	28·77	178
D	,, ,, (Heythrop)	Mr. S. Capon	10	4	0	700	701	27·61	169
	3.—*THAMES*—*Cherwell.* 250 *sq. mi.*								
	Nuneham Park Gardens	Mr. C. E. Munday	8	3	0	280	565	22·24	..
D†	Oxford (HinckseyPumping Sta.)	W. H. White, Esq., C.E.	8	1	0	187	623	24·54	169
	,, (Osney Lock)	Thames Conservancy	5	2	0	186	656	25·84	149

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		SeaLevel			
	OXFORDSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*THAMES—Cherwell*—(*con.*)								
D	Oxford (Magdalen College)	J. J. Manley, Esq.	5	1	0	186	601	23·67	166
	,, (,, ,, ,	,, ,, ,,	5	33	11	194	570	22·43	..
D†	,, (Radcliffe Observatory)	Dr.A.A.Rambaut,F.R.S.	8	1	8	210	633	24·92	173
D†	,, (,, ,,)(R)	,, ,, ,,	11	2	4	210	636	25·06	169
	,, (Northmore Road)	Miss E. M. Tawney	5	1	0	215	623	24·51	*157*
	Headington (Warneford Asy.)	Dr. A. W. Neill	5	1	0	300	607	23·90	..
D	,, (Charlton Lea)	Mr. L. Dawes	5	1	0	300	649	25·56	153
D	Elsfield Manor House	Miss M. J. Parsons	5	1	0	355	649	25·54	169
	Islip	Col. G. E. Eliot	5	3	0	200	611	24·04	..
	Charlton-on-Otmoor School	E. Cartwright, Esq.	6	1	3	197	671	26·40	..
	Bletchington School	H. C. Witcombe, Esq.	5	1	6	329	785	30·90	..
	Middleton Park	Earl of Jersey	5	2	6	326	675	26·56	165
D	Steeple Aston (The Grange)	Miss Bradshaw	8	1	0	400	659	25·96	167
D	,, ,, (Hill House)	B. S. Ogle, Esq	5	0	5	400	655	25·79	162
D	Swerford	W. Hall, Esq	5	1	0	500	719	28·30	184
	West Adderbury (St Amand's)	Miss M. M. Bradford	8	1	0	320	646	25·42	..
D	Adderbury (Cross Hill)	G. H. Norris, Esq.	5	1	1	338	610	24·00	171
	,, (The Rookery)	C. C. Bradford, Esq.	8	1	0	323	617	24·30	160
D	Bodicote House	J. F. Starkey, Esq.	8	1	3	388	670	26·38	159
	,, (Draycott House)	F.B.JudgeBaldwin,Esq.	5	1	8	391	611	24·06	143
D	,, Vicarage	Rev. H. N. Fowler	5	1	0	390	671	26·41	172
	Broughton Rectory	Rev. B. W. Bradford	5	0	6	370	669	26·34	171
	Wroxton	Hon. Mrs. FitzGerald	12	1	3	590	619	24·38	142
D	Shenington School Gardens	Rev. A. Blythman	5	1	3	540	770	30·31	158
	4.—*THAMES—Thame & c.* 210 *sq. mi.*								
	Caversham (Eastfield)	C. M. Powell, Esq.	5	1	0	180	696	27·39	155
	,, (KidmoreEndSchl.)	T. F. Higgens, Esq.	5	0	11	330	718	28·25	..
D	Harpsden (Cray)	B. E. D. Kilburn, Esq.	5	0	8	230	742	29·21	158
D	Goring (Elmcroft)	Major E. Gambier Parry	5	0	10	160	729	28·70	144
	Henley-on-Thames (Peppard)	Rev. Hubert Shears	5	1	0	336	715	28·16	*177*
D	,, ,, ,, (Hart St.)	A. Edward Hobbs, Esq.	5	1	6	110	691	27·19	173
D	,, ,, ,, (,, ,,)	,, ,, ,,	5	7	6	116	666	26·23	173
D	,, ,, ,, (Greys Lane)	G. Potter, Esq.	5	0	9	123	690	27·17	144
	Nettlebed (Joyce Grove) ..No.1	Mr. A. Johnstone	5	1	0	590	851	33·52	..
D	,, (,, ,,) ..No.2	,, ,,	5	1	0	590	855	33·68	150
D	Benson Observatory	W. H. Dines, Esq., F.R.S.	5	1	0	186	613	24·13	160
	,, ,,	,, ,, *per* M.O.	..	1	0	187	639	25·15	174
D	Dorchester (Bishops Court)	T. Latham, Esq.	5	2	0	169	641	25·23	180
D	Culham School House	F. Mitchell, Esq.	5	0	10	180	588	23·16	147
D	,, (St. Gabriel's College)	Miss E. M. Carter	8	1	3	212	549	21·61	147
D	Clifton Hampden(Manor House)	Lord Aldenham	5	1	0	190	602	23·70	153
D	Watlington (Pyrton Manor)	Mrs. E. Hamersley	5	1	6	321	708	27·88	144
D	Lewknor (Manor House)	Miss Spencer	5	1	3	360	786	30·93	185
	Wheatfield	A. J. Spencer, Esq.	5	0	8	275	703	27·69	..
	Toot Baldon (Potlands)	D. Clinkard, Esq.	5	1	0	288	633	24·91	141
	Great Haseley (Manor House)	F.Gelderd-Somervell,Esq	5	1	0	280	659	25·95	137
	Thame (Tythrop House)	A. W. Smith, Esq.	..	..		230	688	27·08	..
	Stanton St. John (Woodperry)	J. Thomson, Esq.	6	1	0	399	706	27·78	135
	5.—*OUSE.* 25 *sq. mi.*								
D	Fringford School	Mrs. A. J. Jepson	5	1	5	350	726	28·60	181

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	NORTHAMPTONSHIRE. (Area, 1003 sq. mi.)								
	1.—*SEVERN.—Upper Avon.* 60 *sq. mi.*								
D	Winwick Warren	Col. R. H. Ainsworth	8	1	5	648	658	25·90	154
	2.—*THAMES—Cherwell.* 77 *sq. mi.*								
D	King's Sutton (Astrop)	E. Browne, Esq.	5	1	0	338	648	25·50	159
	,, ,, School	A. H. Tilbury, Esq.	5	1	0	300	678	26·70	..
D	Grimsbury (Banbury W.W.)	W. E. Wood, Esq.	5	1	3	320	546	21·51	166
	3.—*OUSE.* 148 *sq. mi.*								
D	Brackley House	Capt. J. Allen	5	1	0	425	670	26·37	175
D	Hartwell Vicarage	Rev.C.Ryder-Macnally	5	1	10	403	721	28·38	175
	Hargrave Hall	C. K. Murchison, Esq.	5	1	0	273	603	23·74	..
	4.—*NENE.* 622 *sq. mi.*								
	Salcey Forest	ThomasJones,Esq.*per*MO	8	1	3	612	644	25·35	147
	Courteenhall Grange	Capt. G. M. Archdale	5	0	11	280	629	24·78	149
D	Blisworth (Crieff House)	A. Westley, Esq.	5	1	0	330	679	26·73	177
D	,,	T. W. Millner, Esq.	5	1	6	300	644	25·37	192
D	Litchborough Hall	Major C. A. Markham	5	1	10	500	609	23·96	152
D	Castle Ashby	R. G. Scriven, Esq.	5	1	0	263	641	25·25	184
D	Little Houghton House	Christopher Smyth, Esq.	5	2	2	271	682	26·84	171
D	Northampton (Dallington Av.)	Major C. A. Markham	5	1	0	265	582	22·90	178
D	,, (Kingsley Road)	R. H. Primavesi, Esq.	5	..		..	617	24·29	176
D	,, (GeneralHospital)	Major C. A. Markham	..	..		..	597	23·52	147
	Hazelborough Woods	Harvey Gulliver, Esq.	8	1	0	241	642	25·28	168
D	Great Billing Rectory	Rev. G. H. Mullins	8	1	6	275	615	24·21	176
D	Daventry (Tunnel End)	T. W. Millner, Esq.	5	1	6	394	587	23·11	200
	Great Brington	Major C. A. Markham	5	2	9	448	573	22·57	..
D	Althorp Park	,, ,, ,,	5	1	0	400	577	22·73	154
D	Sywell Hall	T. A. Dickson, Esq.	5	1	0	371	599	23·60	153
D	Pitsford (Sedgebrook)	Major C. A. Markham	5	1	9	311	565	22·25	148
	,, (,,)	M ,, ,, ,,	5	1	0	311	563	22·16	..
D	Rushden (Alfred Street School)	S. Saddler, Esq.	5	1	3	200	562	22·14	173
D	Wellingborough (Swanspool)	N. Pearce Sharman,Esq.	5	0	2	155	652	25·66	182
D	,, (Sewage Works)	R. S. Henshaw, Esq.,C.E.	5	1	0	139	615	24·22	155
D	,, (Bushfield W.W.)	,, ,, ,,	8	0	11	286	637	25·07	169
D	Watford Court	Major C. A. Markham	9	1	2	380	572	22·50	136
D	Ashby St. Ledgers	Maj. P. E. T. Hibbert	5	0	10	500	552	21·72	144
D	Ravensthorpe (Coton Mill)	Lt.-Col. G. S. Eunson	5	1	0	355	624	24·55	177
D	Brixworth Hall	Mr. J. Sutherland	8	0	8	400	662	26·07	137
	Scaldwell	Capt. R. Soames	5	1	0	404	604	23·79	..
	Lamport Hall Gardens	Mr. F. Howard	8	1	2	440	608	23·93	..
D	Raunds (Day School)	Major C. A. Markham	8	1	0	205	616	24·25	166
D	Cranford (Woodford House)	E. N. Plevins, Esq.	8	1	0	252	576	22·68	155
D	Kettering W.W. (Cransley)	Major C. A. Markham	8	0	6	275	592	23·32	151
D	,, (Sewage Works)	,, ,, ,,	8	1	0	199	606	23·84	171
D	,, W.W.(ThorpeMalsor)	,, ,, ,,	5	0	11	352	622	24·50	159
D	,, ,, (Clover Hill)	,, ,, ,,	5	0	7	344	656	25·81	155
	,, (Warkton)	Mr. R. H. Brett	5	1	3	275	614	24·18	..
	Rothwell (Loddington)	Mr. J. Oliff	5	1	0	400	629	24·76	..
D	Thrapston (Union Bank)	C. Modlen, Esq.	5	1	0	110	607	23·89	156
D	,, (Drayton House)	Mr. G. Medcraft	5	1	6	220	654	25·74	147
D	Aldwinkle St. Peter Rectory	Major C. A. Markham	5	0	11	175	617	24·28	137
	Desborough	,, ,, ,,	5	3	0	457	585	23·04	..

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	NORTHAMPTONSHIRE—(*con.*)								
	4.—*NENE*—(*con.*)								
D	Rushton Manor	R. A. Willows, Esq.	5	1	0	400	676	26·61	144
D	Rothwell (Shotwell Mill)	C. D. Rochester, Esq.	5	1	6	323	570	22·46	145
D	Barnwell (Lilford Hall)	Mr. F. W. Gallop	5	1	0	..	649	25·54	162
	Oundle (Milton Road)	J. M. Siddons, Esq.	5	3	4	131	532	20·93	..
	,, Waterworks	N. E. Dixon, Esq., C.E.	5	1	0	147	589	23·18	152
	,, School	F.W.SandersonEsq*per*MO	7	1	1	147	576	22·68	164
D	Corby (Weldon Grange)	John Rooke, Esq.	5	1	0	342	634	24·96	162
D	Deene Rectory	Rev. T. Catton	..	..		230	598	23·53	169
D	Peterborough (Westbourne Ho.)	E. H. Colman, Esq.	8	1	0	38	519	20·44	156
D	,, (Ashfield)	J. A. Percival, Esq.	5	0	7	30	499	19·64	143
D	,, (Abbeyfields)	Major J. Shipley Ellis	5	0	6	49	532	20·96	155
D	,, (Milton House)	Major C. A. Markham	..	..		..	614	24·18	137
D	Wittering Rectory	Rev. S. B. Warde	5	1	0	180	546	21·50	159
	Eye (Northolm)	S. M. Egar, Esq. *per*M.O.	5	1	0	17	493	19·41	157
D	,, (Newborough)	R. Williams, Esq.	5	1	0	8	517	20·35	142
	5.—*WELLAND.* 96 *sq. mi.*								
D	Marston Trussell Rectory .. (R)	Rev. J. Knight Law	10	2	6	314	569	22·40	160
	Dingley Hall[MarketHarboro']	Maj.-Gen. Lord Downe	5	1	6	400	623	24·54	..
	Carlton Park Gardens	Mr. R. W. Thatcher	5	1	1	400	645	25·38	..
D	Gretton (Gretton House)	Mr. J. Rogers	9	1	0	354	637	25·09	143
D	,, School	W. Leeson, Esq.	5	1	0	363	617	24·31	157
	Kings Cliffe (Fineshade Abbey)	Major C. A. Markham	5	0	9	200	602	23·69	..
	Colleyweston (Cuckoo Lodge)	T. Booth, Esq.	8	3	0	300	546	21·51	..
	Wittering (Whitewater)	,, ,,	8	3	0	241	579	22·81	..
	Etton [Market Deeping]	G. Nicholls, Esq.	8	1	0	25	512	20·16	..
	HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
	1.—*OUSE.* 327 *sq. mi.*								
D	St. Neots (Waresley Park)	Miss Duncombe	5	0	11	190	632	24·88	159
	,, (Great Paxton)	Rev. A. G. Cane	5	1	0	100	573	22·56	..
D	Hemingford Grey (Millview)	G. F. Wilson, Esq.	5	1	6	20	566	22·27	146
	Huntingdon (BramptonGrange)	Rev. A. T. Thompson	5	1	6	47	621	24·45	..
D	,, (Hinchingbrooke) (R)	Mr. W. Prowting	8	6	0	74	634	24·98	176
D	St. Ives (Slepe House)	Dr. W. R. Grove	5	1	0	25	593	23·34	153
	Catworth	J. H. Annet, Esq.	5	0	9	210	544	21·41	..
	Whittlesea Mere	Capt. G. E. Mathews, C.E.	8	1	6	10	490	19·31	..
	2.—*NENE.* 39 *sq. mi.*								
	BEDFORDSHIRE. (Area, 467 sq. mi.)								
	1.—*THAMES—Colne.* 20 *sq. mi.*								
	Dunstable (Kensworth Vicarage)	Mrs. Litle	5	1	3	585	798	31·43	..
	Luton (Stockwood)	E. R. Crawley, Esq.	5	3	0	539	725	28·53	165
	2.—*THAMES—Lea.* 32 *sq. mi.*								
D	Luton (Pumping Station)	J.W.Tomlinson, Esq., C.E.	5	1	0	343	771	30·37	160
D	,, (Tennyson Road)	Harold F. Smith, Esq.	5	1	1	530	751	29·55	174
D	,, (The Downs)	G. W. Pryer, Esq.	5	1	0	479	809	31·86	155
D	Dunstable (Grammar School)	W. D. Coales, Esq.	5	0	8	480	756	29·76	179
	3.—*OUSE.* 408 *sq. mi.*								
D	Woburn (Milton Bryant)	Mr. C. J. Kilby	5	1	0	510	692	27·23	146
D	Shillington	Kilham Roberts, Esq.	5	1	0	182	774	30·48	146
D	Ampthill (Higham Bury)	E. J. Jekyll, Esq.	5	1	0	310	747	29·39	173

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
BEDFORDSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
3.—*OUSE*—(*con.*)								
Shefford (Upper Stondon)	R. Long, Esq.	5	1	0	241	706	27·80	..
D†Woburn (Crawley Mill Farm)	J. Crabtree, Esq.	8	1	0	292	680	26·76	169
D†Woburn(FruitFarm,Ridgmont)	W. H. Neild, Esq.	5	1	0	270	654	25·75	165
D Stotfold(Three CountiesAsylum)	Dr. L. O. Fuller	5	1	0	220	698	27·47	160
Shefford (Clifton Bury)	A. Inskip, Esq.	5	2	1	150	689	27·12	..
D ,, Council School	G. F. Alldritt, Esq.	5	1	0	134	653	25·71	163
,, (Stanford)	H. Inskip, Esq.	5	2	0	60	706	27·78	..
Sandy (The Lodge)	Mrs. Farley	5	1	0	200	608	23·95	..
D ,, (Beeston Grange)	Col. Maunsell Bowers	5	1	0	100	639	25·15	161
D Bedford (The Park)	(R)N. Greenshields, Esq.	8	5	8	123	542	21·33	159
,, (Castle Road)	Miss M. E. Newbery	5	7	0	108	582	22·91	147
Goldington (Castle Mills)	W. H. Rogers, Esq.	5	1	6	90	574	22·58	..
D Great Barford House)	J.ArnoldWhitchurch,Esq	5	1	0	120	610	24·02	144
Sharnbrook (Castle Close)	L.Stileman-Gibbard,Esq.	5	0	4	210	640	25·19	176
,, (Colworth Gardens)	Mr. J. Hoad	5	2	0	250	639	25·16	..
4.—*NENE*. 7 *sq. mi.*								
CAMBRIDGESHIRE. (Area, 859 sq. mi.)								
1.—*STOUR*. 17 *sq. mi.*								
2.—*OUSE*. 740 *sq. mi.*								
D Odsey [Ashwell]	Sir H. G..Fordham	5	1	0	256	658	25·91	170
Melbourne Vicarage	Mrs. de Courcy-Ireland	5	1	2	78	706	27·80	144
D Meldreth (Chiswick Farm)	A. Howard, Esq.	5	1	1	70	653	25·72	139
D Fowlmere (Fruit Farm)	H. F. Smith, Esq.	5	1	0	75	546	21·49	152
D Linton	E. F. Suckling, Esq.	5	1	0	141	577	22·73	152
D Foxton (The Bury)	J. Gifford, Esq.	5	1	0	60	624	24·57	160
Whittlesford (Sawston Hall)	D. L. Huddleston, Esq.	5	1	1	86	585	23·03?	..
Harston Vicarage	Mrs. C. M. Baldwin	5	0	8	47	656	25·81	..
Wimpole Hall	Mr. W. J. Snell	5	1	0	141	658	25·91	149
D Gamlingay (Old Woodbury)	Hon. C. H. Trevor	5	0	9	200	634	24·94	169
D Stapleford House	J. H. H. Linton, Esq.	5	2	3	64	590	23·24	135
Balsham Rectory	Rev. H. J. E. Burrell	5	1	6	399	646	25·42	..
Granchester Mill	J. Nutter, Esq.	5	5	0	31	597	23·50	..
D Cambridge W.W. (Fleam Dyke)	W. W. Gray, Esq., C.E.	5	1	5	99	541	21·30	146
D ,, ,, (Fulbourne)	,, ,, ,,	5	1	0	37	562	22·11	166
D ,, ,, (Cherryhinton)	,, ,, ,,	5	1	0	35	582	22·91	162
D ,, (Hills Road, South)	Smith Nutter, Esq.	8	0	10	45	622	24·49	180
† ,, (Herschel House)	C. N. H. Lock, Esq.	5	1	0	36	566	22·27	..
D† ,, (Sidney Street)	Messrs.W.E.Pain&Sons	8	53	0	83	547	21·55	164
D ,, (CorporationStoreYd)	Julian Julian, Esq., C.E.	5	1	0	52	561	22·07	161
D† ,, (Tenison Avenue)	W. B. Parsons, Esq.	8	1	2	40	576	22·69	154
D† ,, (Pinehurst)	C. F. Foster, Esq.	5	0	10	36	609	23·98	157
D† ,, (Botanic Gardens)	R. Irwin Lynch, Esq.	8	1	1	43	576	22·69	161
D ,, (CorporationPumpg.St.)	Julian Julian, Esq., C.E.	5	1	0	28	567	22·31	182
D Boxworth [St. Ives]	E. H. Thornhill, Esq.	5	1	0	76	612	24·11	179
D Swaffham Prior Vicarage	Rev. L. Fisher	5	1	0	44	555	21·85	169
D Burwell	R. Stephenson, Esq.	5	2	0	58	617	24·28	140
Conington Hall [St. Ives]	Philip T. Gardner, Esq.	8	0	5	50	676	26·63	166

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	CAMBRIDGESHIRE—(*con.*)								
	2.—*OUSE*—(*con.*)								
	Cottenham (Bernard House)	A. Bull, Esq.	5	2	0	30	594	23·38	..
	Stretham Engine	Mr. J. Housley	9	4	9	13	513	20·21	..
	,, (Orchard House)	C. Wright, Esq.	8	5	0	42	550	21·67	..
D	Ely (The Palace)	Mr. A. Sewell	5	1	0	64	583	22·95	176
	Chatteris (Holwood Farm)	Mr. G. Argent	5	0	10	12	630	24·79	..
	Littleport (Highfield House)	H. G. Martin, Esq.	8	2	7	67	520	20·47	..
	Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	1	0	31	604	23·76	..
	,, (The Priory)	H. F. Fryer, Esq.	5	0	7	31	567	22·32	..
D	March	Capt. G. E. Mathews, C.E.	9	2	0	10	572	22·54	140
D	Upwell (Marmont Priory Lock)	,, ,, ,,	8	1	1	..	585	23·03	185
	,, (Euximoor House)	J. W. Day, Esq.	5	0	8	15	586	23·05	..
D	Wisbech (Queen's Road)	H. Dann, Esq.	5	7	6	10	624	24·58	157
	3.—*NENE.* 102 *sq. mi.*								
D	Stanground Sluice	Capt.G.E.Mathews,C.E.	8	1	6	15	524	20·62	154
D	Parson Drove (Clows Cross)	W. Kingston, Esq.	8	3	0	13	516	20·31	147
	Wisbech (Bank House)	LordPeckoverofWisbech	8	0	8	6	527	20·75	..

DIVISION IV.—EASTERN COUNTIES.

	STATIONS.	AUTHORITIES.	Diam.	Ground ft.	Ground in.	SeaLevel	mm.	inches	Days
	ESSEX. (Area, 1532 sq. mi.)								
	1.—*THAMES. Lea.* 132 *sq. mi.*								
D	West Ham (Abbey Mills)	London County Council	8	1	0	15	677	26·65	158
D	Leyton (Sewage Works)	E. H. Essex, Esq.	5	1	0	22	676	26·61	149
	Leytonstone (High Road)	Miss G. Lister	5	1	6	100	751	29·57	..
D†	Lea Bridge (Waterworks)	Met. Water Board	8	0	6	23	645	25·39	152
D†	Walthamstow (Ferry Lane)	,, ,, ,,	5	0	10	30	631	24·83	169
D†	Woodford (Haggar Lane)	,, ,, ,,	8	0	8	176	630	24·82	152
D†	Buckhurst Hill Reservoir	,, ,, ,,	8	1	7	275	636	25·02	165
D	,, ,, (Ardmore)	Mrs. Eliot Howard	8	1	0	270	756	29·78	155
D	Chingford (Crescent Road)	M. L. Mathieson, Esq.	6	2	9	150	628	24·71	165
D†	,, Mill	Met. Water Board	8	0	6	40	608	23·95	152
D†	Loughton(High Beech Res.)	,, ,, ,,	8	1	0	376	692	27·23	165
D†	WalthamAbbey(Rammey Marsh)	,, ,, ,,	8	1	0	60	624	24·56	163
D†	,, ,, Pumping Stat.)	,, ,, ,,	8	1	3	66	684	26·94	146
D	HatfieldBroadOak(Barrington)	A. H. Gosling, Esq.	5	0	10	300	640	25·21	182
D	Hassobury [Bishop Stortford]	L. D. Gosling, Esq.	5	0	10	290	723	28·45	188
D	Elsenham (Gaunts End)	H. Cotterell, Esq.	5	1	0	363	655	25·78	167
	2.—*THAMES—Roding & c.* 316 *sq. mi.*								
	Tilbury(ParkViewObservatory)	S.A.Hill-Willis,Esq.C.E.	5	1	0	6	653	25·72	154
D	Grays (Stanley Road)	A. C. James, Esq., C.E.	5	3	3	21	741	29·18	161
D	,, Sewage Works	L. D. Holgate, Esq.	8	2	3	9	583	22·94	147
D	,, (Central Park)	F. J. Kendall, Esq.	5	1	0	12	668	26·32	148
D†	East Ham Well	Met. Water Board	8	0	11	17	656	25·81	167
	Ilford Sewage Works	J. Sandford, Esq.	5	1	1	31	556	21·87	..
D	Bulvan (Pear Tree Corner)	Mrs. Read-Andrews	5	1	0	12	571	22·50	148
	Vange Pumping Station	SouthendWaterWorksCo	5	1	0	43	554	21·82	..
	Pitsea ,, ,,	,, ,, ,,	5	1	0	29	566	22·30	..
	Upminster (High House)	C. Reilly, Esq.	5	1	0	..	586	23·08	..
D†	Wanstead (Red Bridge)	Met. Water Board	5	2	2	27	592	23·30	152

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	ESSEX—(*con.*)								
	2.—*THAMES—Roding & c.*—(*con.*)								
D	Manor Park(Albany Road)	A. J. Wilmshurst, Esq.	5	3	0	40	671	26·40	172
	,, ,, (Cemetery)	Mr. J. D. Robertson	5	0	6	45	636	25·03	..
D	Romford (Harold Wood)	Sir J. G. Broodbank	5	4	0	120	590	23·22	180
D	Havering Grange	G. P. Hope, Esq.	5	1	0	255	701	27·58	202
D	,, -atte-Bower(Fernside)	Benjamin Smith, Esq.	5	1	0	341	744	29·29	200
D	Chigwell (Grange Court)	Hon. Cecil Baring	5	1	0	190	659	25·93	152
D	Theydon Bois (Thrifts Hall)	H. B. Debenham, Esq.	5	0	9	200	643	25·33	179
	Epping (The Hemnalls)	Miss A. Nicholl	8	0	8	345	750	29·54	..
D	North Weald (Canes)	H. W. Hart, Esq.	5	1	11	250	611	24·06	148
	3.—*CROUCH.* 186 *sq. mi.*								
D	Shoeburyness	Superintendt. of Expts.	8	1	0	13	531	20·90	161
	,, M	,, ,,	5	1	0	13	533	20·97	..
D	Southend (Corporation Obsy.)	F. W. Venables, Esq.	8	1	0	90	559	21·98	151
	,, (Broadway)	H. J. G. Ralph, Esq.	5	1	0	78	558	21·97	..
	,, (Chalkwell Park)	F. W. Venables, Esq.	8	1	0	121	610	24·02	..
D	,, (Water Works)	Southend Water Wks Co	8	1	0	112	581	22·89	161
D	Leigh Reservoir	,, ,, ,,	5	1	0	177	580	22·83	137
D	Eastwood Pumping Station	,, ,, ,,	8	1	0	50	607	23·88	166
	Thundersley Reservoir	,, ,, ,,	5	1	0	277	591	23·26	..
D	Rayleigh (Wheatley's Lane)	A. H. Goodall, Esq.	5	1	0	250	599	23·60	*168*
	Nevendon Pumping Station	SouthendWaterWks.Co.	5	1	0	43	541	21·28	..
D	Billericay (Service Tank)	,, ,, ,,	5	1	0	310	624	24·56	167
D	,, (Ramsden Hall)	T. W. Bacon, Esq.	5	0	9	260	649	25·57	176
D	Wickford (Runwell Hall)	Lt.-Col. H. Kemble	5	1	0	75	657	25·86	155
D	Rettendon Place	Miss M. Meeson	8	0	10	120	568	22·37	146
	,, Rectory	Rev. G. Evans-Gwynne	5	0	5	120	571	22·48	..
D	WoodhamFerrers(EdwinsHall)	J. W. Hensley, Esq.	5	1	0	180	621	24·46	155
	Southminster (The New Moor)	E. J. Attenborough, Esq	..	..		..	594	23·40	..
D	,, (North End House)	Mrs. Owen	5	1	0	60	565	22·23	142
	Bradwell-on-Sea(BradwellHall)	J. C. Chillingworth, Esq.	5	1	1	27	504	19·84	..
	4.—*BLACKWATER.* 425 *sq. mi.*								
	Brentwood(Shenfield,TheLodge)	H. P. Landon, Esq.	5	0	7	303	699	27·53	..
	South Hanningfield(Peadowns)	W. Hill, Esq., *per* M.O.	..	..		134	573	22·58	..
	Ingatestone (Fryerning)	A. E. Christy, Esq.	5	1	0	291	630	24·82	..
D	Maldon (Hazeleigh Rectory)	Rev. G. H. Raynor	7	1	1	161	519	20·44	160
D	Danbury Rectory	Rev. J.BridgesPlumptre	5	1	0	365	577	22·72	167
D	Writtle (Melbourne)	J. A. Rosling, Esq.	5	0	9	140	646	25·44	164
	Chelmsford(CountyLaborat'ries)	R.M. Wilson, Esq.	5	1	0	140	545	21·47	..
	,, (High Street)	Miss F. J. Chancellor	8	1	0	92	611	24·07	..
	Roxwell	R. W. Christy, Esq.	5	1	0	180	565	22·26	..
	Chignall Hall	Austin Matthews, Esq.	5	1	4	152	565	22·23	..
D	GreatWaltham(Chatham Hall)	Col. R. Egerton	5	1	0	156	675	26·56	148
D	Witham (Terling Vicarage)	H. C. Boutflower, Esq.	5	1	0	115	601	23·65	141
D	Great Leighs (Lyons Hall)	J. H. Tritton, Esq.	5	3	0	130	588	23·15	140
	Witham (Faulkbourne Hall)	Miss C. L. Parker	5	0	8	100	583	22·95	166
D	Hartford End (Leez Priory)	M.E.Hughes-HughesEsq.	5	1	0	170	624	24·55	178
D	Kelvedon (Lawn House)	FRandolph-SymmonsEq	5	1	0	96	582	22·93	153
D	,, (White Barn)	W.&H.J.Sheldrake,Esqs.	5	1	5	135	563	22·16	152
D	,, (Feering Vicarage)	Rev. A. F. Curtis	5	1	0	100	655	25·77	170
D	Felsted School	J. H. Owen, Esq.	5	1	2	248	602	23·68	149

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	ESSEX—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	4.—*BLACKWATER*—(*con.*)								
D	Little Dunmow Council School	Miss M. G. Archer	5	1	0	258	601	23·64	146
D	Great Dunmow	Messrs. Hasler & Clapham	5	0	6	215	618	24·34	149
	Little Dunmow (Throws)	Miss Webb	5	1	4	283	599	23·58	..
	Pattiswick Hall	Harris Smith, Esq.	5	0	10	220	520	20·48	..
D	Braintree (Bocking, Fennes)	H. S. Tabor, Esq.	5	1	0	240	557	21·92	160
	Great Saling (Saling Grove)	Mrs. Nicholls Harrison	8	1	0	290	550	21·65	..
	,, ,, (Woolpits)	Joseph Smith, Esq.	5	1	0	280	530	20·85	..
D	Shalford (Littles)	W. F. Hart, Esq.	5	1	8	260	574	22·60	152
	5.—*COLNE & C.* 283 *sq. mi.*								
	Mersey Island (Waldegraves)	*E. Anglian Daily Times*	..	..		55	544	21·42	..
D	Clacton-on-Sea	Mr. A. W. Shadick	8	1	2	55	498	19·60	155
	Great Clacton (Clay Hill)	Philip Smith, Esq.	5	2	0	45	472	18·57	139
	Tiptree	Messrs. Wilkin & Sons Ltd	5	0	6	170	568	22·35	..
	Fingringhoe (Ballast Quay Farm)	T. B. Grubb, Esq.	5	2	0	47	608	23·92	139
	Colchester (Berechurch)	R. P. Blyth, Esq.	5	0	9	120	586	23·07	..
	,, (King's Ford)	Hon. Lady Digby	5	1	0	103	581	22·87	168
D	,, (Boro' Surveyor's Office)	H. Collins, Esq., C.E.	8	17	0	82	523	20·60	157
D	Lexden (Hill House)	S. F. Hurnard, Esq.	5	1	0	90	566	22·29	148
	,, (,, ,,)	M ,, ,, ,,	5	1	0	90	564	22·22	..
	,, (Home Farm)	Mr. W. Bird	5	1	0	125	571	22·48	..
	,, Rectory	Rev. T. S. Raffles	5	0	11	100	624	24·57	160
D	Great Bromley (Broughton)	W. Arnold Roberts, Esq.	5	1	3	115	641	25·24	140
	Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1	3	188	579	22·80	134
D	Manningtree (Bradfield Lodge)	G. Hempson, Esq.	5	1	0	113	591	23·27	134
D	Halstead (The Brewery)	Lieut. E. T. Adams, R.N.V.R.	5	1	0	140	610	24·01	169
D	,, (Grammar School)	Miss Coles	5	1	0	220	608	23·93	136
	Great Maplestead (Monk's Lodge)	T. F. Miller, Esq.	5	0	9	230	575	22·65	..
D	Great Yeldham (The Oak House)	G. A. Goodchild, Esq.	5	1	6	150	584	22·99	146
	,, ,, (Tilbury Hall)	R. E. Vaisey, Esq.	5	1	0	250	602	23·69	140
	Ridgewell (Ridgewell Hill)	Miss E. E. W. Gurney	5	1	0	269	573	22·55	176
	6.—*STOUR.* 110 *sq. mi.*								
	Harwich (Coastguard Station)	W. Bevan, Esq.	5	1	0	40	510	20·09	..
	Lawford (Dale Hall)	W. H. Richardson, Esq.	5	1	0	110	584	23·00	..
D	Dedham (Dalethorpe)	J. D. Tremlett, Esq.	5	1	1	54	575	22·64	145
D	Bulmer Lodge [Sudbury]	Miss Burke	5	1	3	200	639	25·16	152
	7.—*OUSE.* 80 *sq. mi.*								
	Widdington Rectory	Rev. J. W. Court	5	1	6	340	648	25·53	..
	Arkesden (Wood Hall)	Charles Beadle, Esq.	5	1	0	380	782	30·78	..
D	Great Chesterford Mills	Ernest H. King, Esq.	5	1	0	130	665	26·18	..
	SUFFOLK. (Area, 1489 sq. mi.)								
	1.—*STOUR.* 271 *sq. mi.*								
D	East Bergholt (Ackworth Ho.)	A. Harwood, Esq	8	1	6	145	486	19·15?	145
	Capel St. Mary School	B. B. Taylor, Esq.	5	1	6	156	585	23·03	..
D	Sudbury (Great Cornard)	A. B. Legard, Esq.	5	1	0	100	603	23·73	147
D	,, (Lunt Fall Reservoir)	G. H. Rampling, Esq.	5	1	3	90	578	22·76	148
D	,, (Friars Street)	E. Ransom, Esq.	5	1	7	93	625	24·61	202
D	Haverhill Vicarage	Rev. H. C. Newbery	5	..		..	642	25·27	156
D	Hitcham Rectory	Rev. R. R. Cobbold	5	1	5	255	567	22·31	176
D	Hawkedon Rectory	Rev. B. P. Oakes	5	3	4	305	654	25·74	164
D	Cockfield Rectory	Rev. Canon Edwin Hill	5	1	0	305	611	24·05	146

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	SUFFOLK—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*ORWELL.* 166 *sq. mi*								
D	Ipswich (Woolverstone Park)	C. H. Berners, Esq.	8	1	0	100	644	25·35	166
D	,, (Rookwood, Copdock)	F. L. Bland, Esq.	8	1	0	164	602	23·69	168
D	,, (Museum)	F. Woolnough, Esq.	8	0	10	72	636	25·04	170
D	,, (Dale Hall)	Percy Turner, Esq.	8	1	0	135	638	25·11	165
	Elmsett (Laurel Cottage)	A. E. Ladbrook, Esq.	5	3	0	210	590	23·24	..
	Ash Bocking Vicarage ...No. 1	Rev. M. B. Cowell	5	1	0	231	640	25·21	..
	,, ,, ,, ...No. 2	,, ,, ,,	5	3	4	231	649	25·55	..
D	Haughley (Haughley House)	Major S. H. Creagh	5	1	0	188	607	23·90	161
	3.—*DEBEN & C.* 466 *sq. mi.*								
	Felixstowe(WirelessTel.Statn.)	M.HumphreyEsq*per*M.O.	8	1	0	10	569	22·40	173
	Bawdsey	W. C. Bennett, Esq.	8	2	0	10	516	20·33	..
D	Woodbridge Abbey	Col. R. J. Carthew	8	1	2	46	691	27·20	188
D	Orford (The Gables)	E. A. Rope, Esq.	5	0	9	30	636	25·03	141
D	Melton (St.Audry's Hospital)	A. F. Philpott, Esq.	8	1	4	74	682	26·87	136
	,, (Bromeswell Rectory)	Rev. F. Shadwell	5	1	5	30	675	26·59	..
D	Rendlesham Hall	Lord Rendlesham	5	1	0	88	544	21·43?	145
	Charsfield (Red House)	Hugh P. Youngman,Esq.	5	1	9	150	632	24·87	..
	Helmingham (Bocking Hall)	W. B. Damant, Esq.	5	1	6	180	678	26·68	137
D	Snape	G. H. Garrett, Esq.	5	2	5	50	659	25·96	161
	Parham (The High House)	H. R. Smith, Esq.	5	1	0	93	625	*24·59*	..
	Campsea Ashe (High House)	Rt. Hon.TheSpeaker,M.P.	8	2	6	60	654	25·75	151
D	Aldborough (Aldringham Ho.)	F. Garrett, Esq.	8	4	0	50	696	27·39	171
	Leiston (Lower Abbey)	M. K. Rope, Esq.	5	0	7	30	621	24·46	..
	Westleton (St. Helena)	J. R. Grimsey, Esq.	8	2	0	65	660	25·99	141
D	Halesworth (Estate Office)	H. S. R. Stanford, Esq.	5	2	0	25	683	26·88	157
D	Wangford (Reydon Grove)	C. P. Runnacles, Esq.	5	1	5	20	630	24·80	153
D	,, (Ford House)	Hon. Agnes Eden	5	0	10	25	674	26·52	156
	Wrentham (Henstead Hall)	Rev. Canon R.V.Barker	5	1	2	25	684	26·93	..
	4.—*YARE & C.* 208 *sq mi.*								
	Horham Rectory	Rev. J. E. Soden	5	1	4	180	775	30·50	144
D	Halesworth (Rumburgh Vic.)	Rev. W. Linton Wilson	5	1	0	148	620	24·43	164
D	Herringfleet (The Gables)	G. H. Wyllys, Esq.	5	0	8	52	739	29·10	166
	Lound Rectory	Mrs. Howes	5	1	0	50	681	*26·80*	..
D	,, Pumping Station	LowestoftWater&GasCo.	8	1	0	34	691	27·22	146
	Fritton Hall	Mrs. H. E. Buxton	8	0	10	40	654	25·76	..
	,, Warren	Gen. R. Upcher, C.B.	5	0	6	42	736	28·99	158
D	St. Olave's Priory (Boat House)	Surg.-Gen.W.A.S.Wynne	5	1	0	7	719	28·30	168
D	Burgh Hall [Yarmouth]	H. P. Frederick, Esq.	8	0	6	45	704	27·71	178
	5.—*OUSE.* 378 *sq. mi.*								
	Bradfield St. George School	R. W. Thompson, Esq.	5	0	10	300	570	22·45	139
	Drinkstone	J. E. Townsend, Esq.	5	3	0	220	627	24·70	..
D	Little Saxham Rectory	Rev. H. I. Kilner	8	0	10	220	634	24·95	165
D	Bury St. Edmunds (Westley)	R. Burrell, Esq.	5	1	0	226	641	25·25	162
D	,, ,, ,, (Northgate St.)	Rev. J. S. Pratt	5	1	0	100	616	24·25	156
	Herringswell Rectory	Rev. E. H. Wright	5	1	0	..	599	23·58	..
D	Barton Mills (Holland House)	Mr. J. Reynolds	8	1	0	40	617	24·30	142
D	Mildenhall	H. R. W. Forster, Esq.	5	1	3	50	563	22·16	143
	†Barningham (The Beeches)	MMiss A. K. Lingwood	8	0	9	136	576	22·68	..
D	Elveden Hall	Viscount Iveagh, K.P.	5	1	0	130	672	26·47	183

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	NORFOLK. (Area, 2044 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*YARE.* 658 *sq. mi.*								
D	Brockdish Rectory	Rev. Wilson W. White	8	1	3	115	597	23·49	168
	Diss (The Cedars)	Dr. H. M. Speirs	10	1	0	108	675	26·59	187
D	Pulham St. Mary (Hill House)	W. G. Rutter, Esq.	5	1	2	120	659	25·94	173
	„ Market School	W. H. Pumfrey, Esq.	5	1	0	131	721	28·38	146
D	Denton Rectory	Ven.Dr. T. H. Bindley	5	0	10	20	640	25·18	169
D	Geldeston [Beccles]	Miss S. S. Dowson	5	1	0	38	676	26·63	189
	LongStratton(Gt.MoultonRec.)	Rev. T. D. Chute	5	0	6	150	733	28·87	..
D	Ditchingham	W. G. Rutter, Esq.	5	1	0	..	657	25·88	156
D	Toft Monks School	W. B. Alexander, Esq.	5	1	0	60	688	27·09	179
D	Raveningham Hall [Beccles]	N. H. Bacon, Esq.	8	0	10	75	705	27·77	151
D	Saxlingham Nethergate	A. W. Preston, Esq.	5	1	5	..	669	26·33	169
D	Wymondham	J. B. Pomeroy, Esq.	8	1	3	118	768	30·25	143
D	Hingham Hall	E. Noel, Esq.	5	1	1	190	636	25·03	176
D	Dunston Hall	A. W. Preston, Esq.	5	4	0	100	735	28·92	166
D†	Keswick Old Hall	E. Knight, Esq.	5	1	0	90	687	27·06	176
D	Hethersett (Cedar Grange)	A. W. Preston, Esq.	5	0	9	150	732	28·81	187
	Little Melton Vicarage	Rev. E. C. S. Upcher	5	0	8	110	634	24·96	141
	Yarmouth (Sailors' Home)	Meteorological Office	8	1	0	13	648	25·51	145
D	„ (NorthgateSt)*Snow.g.*	G. W. Hughes, Esq.	5	1	0	7	721	28·40	178
D	„	G. H.L.DouglasLaneEsq	8	1	0	19	612	24·10	156
D†	Norwich(ChristChurchRdEaton)	A. W. Preston, Esq.	5	1	0	98	707	27·82	195
	„ (Carrow House)	Miss Colman	5	1	3	35	680	26·77	..
D	Brundall (Blofeld Road)	A. W. Preston, Esq.	5	1	0	55	683	26·90	176
D	Norwich (Ipswich Road)	J. H. Willis, Esq.	5	1	0	110	684	26·93	178
D	„ (Heigham Cemetery)	A. W. Preston, Esq.	5	3	2	37	682	26·85	181
D	ThorpeSt.Andrew (Thorpehurst)	Capt. J. H.Mander	5	1	6	45	689	27·13	177
D	Drayton Rectory	A. W. Preston, Esq.	..	..		..	706	27·80	190
	„ Hall	J. H. F. Walter, Esq.	6	0	6	..	644	25·35	..
	Swanton Morley Rectory	A. W. Preston, Esq.	5	..		105	598	23·54	..
D	Bylaugh Park Gardens	Mr. G. Beeton	5	1	0	130	663	26·09	140
D	Swanington (Heath House)	P. Norgate, Esq.	5	1	3	91	639	25·14	174
D	Great Massingham	Dr. Walter Dick	5	1	0	269	673	26·48	172
D	Reepham (Old Brewery House)	A. W. Preston, Esq.	..	..		150	693	27·30	165
D	Cawston Rectory	„ „ „	5	1	0	120	640	25·21	143
D	East Rudham	Miss F. E. Mays	5	2	0	140	701	27·58	177
	2.—*YARE—Bure & c.* 368 *sq. mi.* ..								
	Moulton	A. W. Preston, Esq.	4	..		..	589	23·19	..
D	Acle	„ „ „	5	0	6	51	653	25·70	196
D	Sprowston (Oak Lodge)	„ „ „	5	1	0	100	658	25·89	191
D	„ Hall	Sir Eustace Gurney	5	1	0	90	663	26·12	170
D	Yarmouth(Ormesby St.Michael)	Gt. Yarmouth W.W.Co.	8	1	0	21	719	28·31	252
D	Coltishall	A. W. Preston, Esq.	..	..		..	668	26·29	171
	Aylsham (Rippon Hall)	Major H. S. Marsham	5	0	6	90	661	26·04	..
D	„ (Millgate)	Col. T. W. Purdy,	5	1	0	40	688	27·09	138
D	„ (Bank House)	W. C. P. Cooper, Esq.	5	0	7	120	647	25·46	135
D	Worstead (Frankfort Manor)	J. R. W. Pigott, Esq.	5	5	4	50	680	26·78	135
D	„ (Dilham)	A. W. Preston, Esq.	5	0	8	..	626	24·63	212
D	„ (TheRookery,Dilham)	H. Morse Taylor, Esq.	5	31	0	56	635	25·00	148
D	„ (Lyngate Cottage)	R. J. Cross, Esq.	8	1	0	55	644	25·37	159
D	„ (The Grange)	Rev. F. W. Walker	5	3	0	40	663	26·12	138

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	NORFOLK—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	YARE—Bure & c.—(*con.*)								
D	North Walsham (Empson House)	W. S. Horn, Esq.	5	1	0	102	569	22·42	169
D	,, ,, (Gunton Park)	A. W. Preston, Esq.	..	..		..	637	25·08	152
D	Wickmere	J. Blott, Esq.	5	6	3	150	533	20·98	159
	Baconsthorpe Rectory	Rev. H. Milnes Walker	5	1	6	280	574	22·60	..
D	Cromer (Northrepps Hall)	Mrs. R. Gurney	5	1	4	225	665	26·17	189
	3.—*STIFFKEYS & C.* 288 *sq. mi.*								
	Little Massingham	Rev. P H L Brereton *per* M O	5	1	2	280	693	27·29	188
D	Sandringham House Gardens	Mr. T. H. Cook	5	1	1	121	664	26·15	183
	Cromer	Urb. Dis. Council *per* M.O.	8	1	0	197	483	19·02?	193
D	,, (The Warren)	F. H. Barclay, Esq.	8	1	8	101	598	23·53	153
D	Blakeney	Mr. R. Lee	5	1	3	29	517	20·37	155
D	Wells (Holkham Hall)	Earl of Leicester, G.C.V.O.	12	3	8	39	586	23·08	146
	4.—*OUSE & C.* 638 *sq. mi.*								
D	Garboldisham	T. P. Godfrey, Esq.	5	1	0	100	657	25·85	171
	Thetford (Ford Street Gdns)	Mr. A. Pipe	5	1	0	44	617	24·28	..
D†	,, (Waterworks)	Mr. E. S. Greenwood	8	1	0	170	639	25·15	159
	Kenninghall	A. B. Smith, Esq.	5	1	0	100	670	26·38	..
	Quidenham Hall	Earl of Albemarle, K.C.V.O.	5	1	0	100	626	24·65	136
D	Hargham	Sir H. R. Beevor, Bart.	8	0	3	120	662	26·06	144
D	Caston Rectory	Rev. W. H. Partridge	5	1	0	148	669	26·32	179
	Watton	A. A. Gompertz, Esq.	5	1	0	166	662	26·06	..
D	Stoke Ferry (Wereham)	G. Read, Esq.	5	2	3	66	681	26·80	207
D	Downham (Stradsett)	J. C. Cottam, Esq.	5	1	0	55	651	25·63	*147*
D	,, (Dial House)	T. H. Wenn, Esq.	5	1	6	..	607	23·88	144
D	Outwell (Wellbreck Sluice)	Capt. G. E. Mathews	9	2	6	16	579	22·80	195
D	Emneth	F. M. Bland, Esq.	5	1	0	6	585	23·03	146
D	Swaffham	W. H. Plowright, Esq.	5	5	0	250	602	23·71	156
D	,, (School Paddock)	H. W. Coe, Esq.	5	0	8	253	669	26·34	154
	,, (Homewood)	Messrs. Vynne & Everett	5	2	7	210	724	28·52	..
D	Sporle	T. S. Matthews, Esq.	5	4	0	230	641	25·24	172
D	Swaffham (Little Dunham)	A. W. Preston, Esq.	5	1	1	320	700	27·56	173
D	Wiggenhall (St. Germans Sluice)	Capt. G.E. Mathews	8	1	6	..	596	23·48	139
	King's Lynn (Manure Works)	J. Brown, Esq.	5	3	10	10	556	21·90	136
D	,, ,,	S. S. Burlingham, Esq.	5	6	6	14	572	*22·51*	*142*
	5.—*NENE.* 47 *sq. mi.*								

DIVISION V.—SOUTH WESTERN COUNTIES.

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	WILTSHIRE. (Area, 1375 sq. mi.)								
	1.—*LOWER AVON.* 386 *sq. mi.*								
	Corsley (Sturford Mead)	H. Theodore Cookson Esq	5	1	0	460	967	38·06	182
D	W. Lavington (Dauntsey Agr. Sch)	F. O. Solomon, Esq.	8	1	5	320	820	32·30	156
D	Edington Vicarage	Rev. E. C. Alexander	5	0	8	334	812	31·99?	160
D	Erlestoke Vicarage	Rev. H. S. Travers	5	0	6	320	824	32·45	157
	Market Lavington	Miss A. P. Bouverie	5	0	10	290	762	30·00	158
D	Trowbridge W.W. (Biss Bottom)	W. W. Gray, Esq., C.E.	5	1	0	311	896	35·28	166
D	,, (Rood Ashton)	Mr W. Strugnell	8	1	6	250	1002	39·43	189
D	Bradford (Woodleigh)	A. Scratton, Esq.	5	2	4	..	925	36·42	173

DIVISION V.—SOUTH WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
WILTSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*LOWER AVON*—(*con.*)								
D Bradford (Winsley Manor) ...	E. W. Knatchbull, Esq.	5	0	6	400	822	32·35	169
D ,, (Bearfield House) ...	G.A.R.FitzGerald,Esq.KC	5	1	10	290	803	31·62	167
D ,, (Woolley Grange)....	P. K. Stothert,Esq.,C.E.	5	0	8	216	862	33·92?	181
D ,, (Manvers House) ...	Dr. C. E. S. Flemming .	5	1	0	130	852	33·53	153
D Seend (Cleeve House) .... (R)	W. Heward Bell, Esq. ..	..	1	0	160	818	32·22	181
D ,, (Manor Cottage)	Rev. E. S. Awdry	5	1	0	305	748	29·43	184
D ,, (Ferrum Towers)	H.W.LangleyHaigh,Esq.	8	1	3	250	858	33·80	193
D Holt (The Retreat)	A. V. H. Beaven, Esq. .	5	2	6	145	869	34·23	151
D Devizes (Wilts Co. Asylum) ...	Dr. S. J. Cole	8	2	3	385	640	25·20	140
D ,, (Highclere)	H. W. Green, Esq.	5	1	6	480	778	30·64	171
D Corsham (Pickwick)	Miss SwayneFarebrother	5	1	0	338	864	34·03	171
D Calne (High Street)...........	E. W. Brown, Esq.	4	1	0	242	771	30·37	157
D ,, (Compton Bassett Gdns.)	Mr. J. Wild	5	2	0	500	820	32·30	179
Chippenham (Rowden Hill)....	Daniel Collen, Esq.	5	1	4	223	824	32·43	..
,, (KingtonLangley)	Charles Garnett, Esq. ..	8	1	0	270	807	31·78	160
D Wroughton(Basset DownHouse)	Mrs. Story Maskelyne...	5	1	0	500	812	31·97	170
Malmesbury (CowbridgeHouse)	CEdeBertodanoEsq*pr*MO	5	1	0	236	778	30·63	173
D ,, (CharltonCottage)	Countess of Suffolk	6	0	9	400	829	32·63	166
2.—*STOUR.* 33 *sq. mi.*								
D Mere (Charnage)	A. R. White, Esq.	5	1	0	426	906	35·68	198
D†Stourhead	Sir H. Hoare, Bart. ...	5	1	0	583	1027	40·42	142
D†Kilmington Rectory	RevH.G.Fox Strangways	5	1	6	710	1091	42·97	253
3.—*EAST AVON.* 554 *sq. mi.*								
Donhead St.Mary(CharltonHo.)	Dowager Lady Wynford	5	0	7	515	812	31·98	..
D Longford Castle	The Earl of Radnor	5	1	0	141	801	31·52	182
D Tisbury (The Academy).......	J. Bristol, Esq.	5	0	9	380	1017	40·04	158
D East Knoyle (Slades)	E. H. Miles, Esq.	5	1	0	590	906	35·68	176
Fonthill House Gardens	Hugh Morrison, Esq. ...	5	0	10	400	1016	40·00	174
D Salisbury	W. J. Goodwin, Esq.C.E.	5	2	2	153	742	29·23	158
,, (Fowlers Hill).......	Mrs. T. Awdry	5	1	0	225	736	28·99	147
D† ,, (Brown Street)	Mrs. T. H. Baker	5	1	0	155	816	32·12	233
D ,, (Atherton House) ..	Wilfred Fletcher, Esq.	5	0	11	250	766	30·17	195
D ,, (Wilton House)	Earl of Pembroke	8	1	0	180	901	35·48	152
D Stratford-sub-Castle(ManorHo.)	Miss F. Carpenter	5	0	9	165	747	29·41	165
Woodford (Court House)	Mrs.Chetwynd Stapylton	5	0	10	200	819	32·26	182
Wylye Rectory	Rev. E. M. Parken ...	5	1	8	246	828	32·60	..
D CodfordSt.Mary (Stockton Ho.)	G. Knowles, Esq.	5	1	0	260	901	35·49	180
D†Maiden Bradley	The Duke of Somerset .	5	2	0	626	995	*39·19*	145
Sutton Veny (Greenhill)	R.W.Pretor-Pinney,Esq.	5	1	0	390	929	36·59	..
D†Warminster (Rye Hill)	A. E. Jefferys, Esq. ...	8	2	0	466	912	35·92	181
D† ,, (Bishopstrow).....	P. Benton, Esq.........	5	0	10	360	860	33·86	167
D Cholderton Rectory	Rev. A. E. Brisco Owen	8	1	0	320	768	30·22	187
D Salisbury Plain (Chitterne Ho.)	Joseph Hayward, Esq...	11	4	0	319	760	29·94	157
D† ,, ,, (Shrewton) ..	F. J. Wardale, Esq.	5	0	9	322	892	35·11	196
D Chirton Old Manor Farm	Mr. T. Selfe	5	3	0	374	749	29·48	177
D Bishops Cannings	Mrs. H. H. Mogg	5	1	0	446	805	31·71	164
4.—*TEST.* 77 *sq. mi.*								
Landford (Northlands)	Mrs. Wigram	5	1	10	167	812	31·97	166
D Ludgershall(Conholt Park) . (R)	E. A. Wigan, Esq.	8	1	0	800	980	38·58	144

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		SeaLevel			
WILTSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
5.—*THAMES—Kennet.* 169 *sq. mi.*								
Grafton (Wexcombe)	K. A. MacAndrew, Esq.	5	1	0	570	824	32·44	..
D Marlborough College	Meddows Talyor, Esq.	5	1	0	425	882	34·71	195
D ,, (Mildenhall)	Rev. Gordon Soames	5	1	0	456	766	30·14	154
D Aldbourne (The Warren)	Henry Brown, Esq.	5	1	0	550	857	33·75	182
6.—*THAMES—Cole & c.* 156 *sq. mi.*								
D Wroughton (Burderop Park)	A. Ashford, Esq.	5	0	9	570	756	29·76	155
Wanborough Vicarage	Rev. C. F. Burgess	5	0	10	450	677	26·67	..
New Swindon	H. J. Southwell, Esq.	8	0	11	378	703	27·67	..
D Highworth (Hannington Hall)	Mrs. Hussey-Freke	5	1	0	375	698	27·50	151
DORSETSHIRE. (Area, 988 sq. mi.)								
1.—*PARRETT.* 61 *sq. mi.*								
D Evershot (Melbury House)	Mr. R. Rintoul	5	1	6	500	777	30·58	142
D Chedington Court	Sir Henry Peto, Bart.	5	1	0	605	737	29·01	152
D Leigh Vicarage	Rev. T. L. Jenkins	..	1	0	250	737	29·01	151
D Sherborne Castle	Mr. T. Turton	5	1	0	195	737	29·03	182
,, (Castleton)	ReadingTGrantham,Esq.	5	1	0	200	688	27·09	..
D Nether Compton Rectory	Rev. CanonE.W.Goodden	5	0	8	160	660	26·00	150
2.—*AXE.* 25 *sq. mi.*								
D Broadwindsor(Blackdown Ho.)	Rev. H. A. Boys	5	0	9	515	803	31·62	187
3.—*FROME & C.* 502 *sq. mi.*								
Portland Bill(NewLighthouse)	Meteorological Office	8	1	0	19	547	21·54	155
D†Portland (H. M. Naval Depôt)	H. K. Chambers, Esq.	8	1	5	23	668	26·32	152
D†Weymouth (Westham)	J. H. Bolam, Esq.	5	1	0	25	609	23·96	150
D† ,, (Springfield)	Major J. H. C.Devenish	5	1	3	90	601	23·67	158
D†Chickerell (Montevideo)	Mrs. N. M. Richardson	5	1	0	100	582	22·92	161
D†Tyneham House	Mrs. W H. Bond	8	1	0	250	772	30·40	140
D†Corfe Castle (Kingston Vic.)	Rev. R. A. Bond	5	1	3	450	777	30·60	155
,, ,, (Bucknowle Ho.)	C. Waterston, Esq.	5	1	7	170	718	28·28	149
D†East Lulworth Vicarage	Rev. W. D. Filliter	5	0	9	173	777	30·59	146
†Creech Grange	J. W G. Bond, Esq.	5	1	0	240	815	32·09	..
D†Abbotsbury (New Barn)	J. C. P. White, Esq.	5	1	6	111	646	25·44	174
D† ,, (Market Street)	J. Ford White, Esq.	5	1	0	81	647	25·46	150
D Upwey (Friar Waddon)	T. H. Tyson, Esq., C.E.	5	1	0	215	662	26·06	149
D ,, (Higher Well)	,, ,, ,,	8	1	0	290	652	25·65	148
Warmwell (Beech)	Miss H. G. Williams	..	..		200	685	26·96	..
D†Wareham (East Holme)	G. D. Bond, Esq.	5	1	0	24	757	29·79	137
D† ,, (South Street)	S. W. Bennett, Esq.	5	2	6	18	730	28·74	142
† ,, (Binnegar Hall)	Lt.-Col. P. Farrer	5	1	0	65	773	30·42	167
,, (Trigon)	Mrs. L. Sturdy	8	1	4	60	742	29·23	..
D Dorchester (Kingscote)	E. A. Ffooks, Esq.	5	1	0	226	685	26·98	148
D ,, Water Works	H. D. Strange, Esq.	8	1	0	315	742	29·19	165
D ,, (Wollaston House)	Capt. J. E. Acland	5	1	0	200	733	28·85	167
D ,, (Stinsford)	J. W. Hull, Esq.	5	1	0	207	754	29·68	164
Branksome Park (Kingsfield)	Miss M. Rigden	..	..		..	696	*27·42*	..
D Parkstone (Firgrove)	E. N. M. Wadman, Esq.	5	1	0	120	709	27·91	167
D ,, (Bournemouth Road)	W. H. Symes, Esq.	5	1	3	160	746	29·36	157
†Branksome (Bourne Valley)	Lt.-Col. H. W. Woodall	8	1	3	84	691	27·22	..
,, (Alderney Res.)	,, ,, ,,	8	1	3	213	653	25·70	..
Broadstone House	Mrs. Schuster	5	1	0	220	724	*28·50*	..

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level	1917		
DORSETSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
3.—*FROME & C.*—(*con.*)								
D Lyme Regis	E. T. Stoward, Esq.	5	1	0	55	673	26·48	174
D „ „ (Boat Close)	Henry Ellis, Esq.	5	1	6	498	730	28·74	168
D† „ „ (Highcliff)	Miss G. Lister	5	1	3	330	636	25·04	138
†Charmouth (Hammond's Mead)	A. Barrow, Esq.	5	0	9	50	650	25·61	..
†D „ (Luttrell House)	Miss Paine	5	1	0	100	708	27·88	174
D†Bridport (Westland)	H. Gordon, Esq., C.E.	5	1	0	110	630	24·80	144
D Bradford Peverell House	Mrs. Middleton	6	1	1	381	726	28·57	152
D Moreton (Oaker's Wood)	Miss Fetherstonhaugh	5	1	0	160	709	27·92	137
D Tolpuddle	Rev. Harold R. Long	5	0	6	200	704	27·73	151
D Pydelton Vicarage	Rev. C. A. Phillips	5	2	8	195	778	30·61	153
Bere Regis (Doddings Farms)	Mr. W. Bedford	8	1	0	100	752	29·60	155
D „ „ (Barrow Hill)	Mr. A. C. Lucas	5	1	0	120	724	28·50	151
D „ „ (Bloxworth House)	F. G. A. Lane, Esq.	5	1	6	118	817	32·16	158
D Toller Porcorum Vicarage	Rev. C. H. B. Woodd	8	0	10	400	841	33·11	161
D Cattistock Lodge	H. H. Palairet, Esq.	5	1	0	350	870	34·26	159
D „ (Bell Cottage)	C. E. Davies, Esq.	8	1	0	365	841	33·12	182
D†Beaminster (Hamilton Lodge)	Fiennes Trotman, Esq.	5	1	0	210	804	31·65	167
4.—*STOUR.* 388 *sq. mi.*								
Kinson (Eglinton)	W. C. Keevil, Esq.	5	0	6	44	805	31·71	198
D Wimborne (Corfe Mullen W.W.)	G. V. Sparrow, Esq., C.E.	5	1	6	82	796	31·33	167
D „ („ „ Forest Hill)	E. Philip Belben, Esq.	8	2	0	300	805	31·68	181
D Winterbourne Whitchurch Vic.	Rev. H. H. Tilney Bassett	8	1	0	241	813	32·01	147
D Sturminster Marshall (Bailie Ho.)	Rev. J. Cross	5	1	0	88	776	30·56	156
Wimborne (Westfield)	Countess of Moray	5	0	8	..	629	24·77	..
D „ (Codford House)	G. H. Batterbury, Esq. MD	5	0	9	69	753	29·64	183
D Witchampton	Miss A. L. Homer	5	1	0	130	727	28·61	139
D Blandford (Bryanstone Gardns.)	Mr. J. Jaques	5	1	0	155	955	37·61	147
D Turnworth	Col. Parry Okeden	5	1	0	473	895	35·25	190
D Horton Vicarage	Rev. R. de Bary	5	1	0	133	721	28·39	157
D Holwell (Westrow House)	W. Warry, Esq.	5	1	0	252	639	25·15	141
D Wimborne St. Giles (St. Giles Ho.)	Earl of Shaftesbury	5	1	0	165	756	29·77	160
D Gussage St. Michael Manor	Miss Ellen Good	5	1	3	201	762	30·01	161
D Iwerne Minster House Gardens	J. H. Ismay, Esq.	5	1	0	244	727	28·64	172
Ashmore Rectory	Rev. A. J. Reed	8	1	3	700	728	28·65	..
D Shaftesbury (Abbey House)	A. Macdonnell, Esq.	5	1	2	722	729	28·70	153
D†Gillingham (Town Mills)	Mrs. S. H. Stephens	5	1	2	244	879	34·61	159
D Bourton	B. Pope Bartlett, Esq.	5	1	6	353	956	37·62	167
5.—*EAST AVON.* 12 *sq. mi.*								
SOUTH DEVON. (Area, 1707 sq. mi.)								
1.—*PARRETT.* 7 *sq. mi.*								
D Culmstock (Nicholashayne)	Rev. H. F. Ramsay	5	1	0	477	766	30·16	*189*
2.—*TAMAR & C.* 395 *sq. mi.*								
D Plymouth (Boveysand Lodge)	Rev. H. Case	5	1	6	75	746	29·37	148
D† „ (The Hoe)	J. Paton, Esq. C.E.	8	1	0	116	777	30·58	184
D „ (Drake's Reservoir)	F. Howarth, Esq. C.E.	5	1	0	149	826	32·53	163
D „ (Hartley Reservoir)	„ „ „	5	1	0	321	852	33·53	181
D „ (Freedom Fields)	J. Paton, Esq., C.E.	8	1	0	208	846	33·32	179
D Devonport (Rowdens Res.)	F. Howarth, Esq., C.E.	5	1	0	201	746	29·36	180
D Bickley (Roborough Reservoir)	„ „ „	5	1	0	548	994	39·12	209

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge				Depth of Rain. 1917		Days with ·01 in or more.
			Diam.	Height Above Ground		Height Above Sea Level			
	SOUTH DEVON—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*TAMAR & C.*—(*con.*)								
D	Lee Moor Clay Works	R. Martin, Esq.	8	1	0	900	1423	56·02	194
D	Bere Alston (Mount Tamar)	T. Ching, Esq.	5	2	0	350	943	37·12	166
D	,, ,, (Rumleigh)	Sir A. W. Croft, K.C.I.E.	5	1	6	125	929	36·56	216
D	Sheepstor Vicarage	Rev. H. H. Breton	8	1	0	749	1366	53·78	214
	,,	M F. Howarth, Esq., C.E.	5	1	0	1024	1224	48·18	..
D	,, (Red Stone)	,, ,, ,,	5	1	0	763	1186	46·71	205
D	,, (Burrator)	,, ,, ,,	5	1	0	755	1317	51·85	205
D	,, (Head Weir)	,, ,, ,,	5	1	0	720	1239	48·79	205
D	Dousland Reservoir	,, ,, ,,	5	1	0	721	1140	44·87	224
D	Dartmoor (Deancombe Farm)	,, ,, ,,	5	1	0	830	1235	48·64	217
D	,, (Lowery)	,, ,, ,,	5	1	0	899	1170	46·06	203
	,, (Leather Tor Farm)	,, ,, ,,	5	1	0	910	1249	49·18	*212*
	,, (Siwards Cross)	M ,, ,, ,,	5	1	0	1200	1232	48·52	..
	,, (Cramber Tor)	M ,, ,, ,,	5	1	0	1435	1111	43·74	..
D	Whitchurch (Ashbrook)	Rev. H. B. Grylls	5	1	0	400	1047	41·20	186
D	Tavistock	W. J. Monk, Esq.	5	1	0	457	1129	*44·44*	*205*
	Dartmoor (Leeden Tor)	F. Howarth, Esq., C.E.	5	1	0	1270	1169	*46·02*	..
	,, (N.Hessary Tor) No.1	,, ,, ,,	5	1	0	1625	1292	50·85	..
	,, (,, ,,) No.2	,, ,, ,,	5	1	0	1502	1275	*50·19*	..
	Milton Abbot (Endsleigh)	Mr. F. Yole	5	1	0	180	1021	40·21	..
D	Lifton (Kelly House)	Rev. Maitland Kelly	8	2	6	462	1060	41·74	197
D	Coryton Manor	R. L. Newman, Esq.	5	1	2	445	967	38·07	154
D	Polapit Tamar [Launceston]	R. C. Coode, Esq.	5	1	0	315	943	37·12	198
	3.—*ERM & C.* 217 *sq. mi.*								
D†	Salcombe (Sandhills)	W. H. Pike, Esq.	5	1	0	118	744	29·31	169
	,,	Rev. E. Thorpe	5	1	0	38	771	30·36	175
†	South Huish	W. Balkwill, Esq.	5	5	6	68	894	35·18	..
D	Kingsbridge (Bank House)	W. H. Skinner, Esq.	5	5	0	65	875	34·44	175
D†	East Allington (Fallapit Gdns.)	W. H. Tucker, Esq.	5	1	0	305	1002	39·46	157
D†	Dartmouth (Stoke Fleming)	C. F. Selby, Esq.	5	0	9	356	808	31·83	187
	Ermington (Strode)	Capt. H. Gore Hawker	5	1	0	75	886	34·88	156
D	Ivybridge (Filliam House)	H. Alger, Esq.	5	1	0	162	957	37·67	189
D	South Brent (Blackadon Aslm.)	H. Victor Prigg, Esq., C.E.	5	1	0	607	1034	40·71	189
	,, ,, (Glazebrook)	Vere Cholmondeley, Esq.	5	1	0	400	1221	48·06	..
D	,, ,, (Great Aish)	Miss Kingwell	5	1	0	500	1250	49·22	182
	4.—*DART.* 197 *sq. mi.*								
D	Paignton (Queen's Park)	A. J. Holman, Esq.	8	1	0	11	762	30·02	170
	,, (Torquay Road)	H. Le B. Gunner, Esq.	5	1	0	40	752	29·62	*171*
D	,, (Preston)	G. M. Rosling, Esq.	8	1	2	130	762	30·01	166
D	Totnes (Berry Pomeroy)	C. Barran, Esq.	5	1	0	185	812	31·97	153
D	,, (Staverton)	J. A. Devenish, Esq.	5	0	11	50	780	30·69	141
D	,, (Broadhempston)	Charles Mole, Esq.	5	1	0	135	811	31·94	162
D	Ipplepen Vicarage	Rev. R. D. Cooke	5	1	0	273	780	30·72	160
	Buckfastleigh (Harewood)	J. S. Trelawny, Esq.	5	1	0	230	1143	44·99	..
D	Holne (Church Park Cottage)	L. W. Frost, Esq.	5	1	6	620	1333	52·48	189
D	Ashburton (Dolbear)	Mrs. W. W. Battiscombe	5	1	0	300	886	34·87	147
D	,, (Druid House)	J. S. Amery, Esq.	5	1	0	584	1089	42·86	182
D	,, (Leusdon Vicarage)	Rev. A. Woollcombe	5	1	0	900	1176	46·32	182
D	Princetown (Huccaby House)	Mrs. Wilsone	5	0	11	900	1155	45·46	186
D	,, (H.M. Prison)	George Perry, Esq.	5	1	0	1359	1841	72·46	210

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*)

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Height Above SeaLevel			
SOUTH DEVON—(*con.*)		in.	ft.	in.	feet	mm.	inches	
4.—*DART*—(*con.*)								
D Princetown (Two Bridges)	T. C. Bridges, Esq.	5	0	9	1170	1709	67·30	213
†Dartmoor (Cowsic Valley)	F. Howarth, Esq., C.E.	8	1	6	1352	1589	62·55	..
† ,, (BlackDunghill) No.5	,, ,, ,,	8	1	0	1590	1189	46·80	..
† ,, (Beardown Tor) No.3	,, ,, ,,	8	1	0	1550	1168	46·00	..
† ,, (White Tor.) No.1	,, ,, ,,	8	1	0	1640	1135	44·70	..
† ,, (Devil's Tor) No.2	,, ,, ,,	8	1	0	1785	1295	51·00	..
† ,, (Cowsic Head) No.4	,, ,, ,,	8	1	0	1580	1506	59·30	..
5.—*TEIGN.* 209 *sq. mi.*								
†Torquay (Princess Gardens)	F. March, Esq.	5	1	0	12	634	24·96	173
D† ,, (Cary Green)	,, ,,	5	1	0	12	650	25·61	173
,, (Merton Lodge)	Miss Brown	5	1	0	250	630	24·82	158
D ,, (Stoodley Knowle)	Col. C. R. Burn, M.P.	5	1	0	150	635	24·98	140
D Newton Abbot (The Chestnuts)	E. D. Wylie, Esq.	5	0	6	100	727	28·62	175
D ,, ,, (SealeHayneColl.)	Bernard N. Wales, Esq.	5	1	0	339	725	28·56	*159*
D Teignmouth (Den Gardens)	G. Rossiter, Esq.	5	1	0	20	677	26·65	161
D ,, (Landscore Res.)	,, ,, ,,	8	1	0	136	674	26·55	154
D ,, (Hazledown Res.)	,, ,, ,,	8	2	0	425	683	26·88	153
D ,, (Shaldon Res.)	,, ,, ,,	5	1	0	213	699	27·53	151
D ,, (Bonnicliff)	Miss M. Horner	5	1	0	260	611	24·07	150
D ,, (The Shrubbery)	E. A. Norton, Esq.	8	1	0	275	682	26·83	182
,, (Benton)	W. C. Lake, Esq., M.D.	5	1	0	320	623	24·51	169
,, (Holcombe)	A. L. Tate, Esq.	5	0	4	90	702	27·62	..
D Chudleigh (Ideford Rectory)	Rev. H.Bouchier Wrey	5	1	0	300	654	25·75	141
D Ilsington	W.J.J.H.Burnett,Esq.	5	1	0	650	958	37·73	173
D Bovey Tracey (Blenheim Ho.)	Mr. E. E. Underdown	5	1	0	350	907	35·70	168
D Lustleigh (Rockmead)	Rev. W. A. Jones	5	1	0	300	975	38·39	177
D Manaton School	D. W. Horner, Esq.	5	4	6	900	1055	41·54	209
D Hennock Vicarage	Rev. A. H. Skipper	5	1	0	615	834	32·84	155
Chudleigh (Trusham)	Rev. Offley H. Cary	5	1	0	322	730	28·72	165
D Moretonhampstead (Bullaton)	S. C. Chapman,Esq.,C.E.	8	1	0	928	934	36·78	188
D ,, (Mardon)	,, ,, ,,	8	1	0	835	842	33·16	187
North Bovey (Manor House)	Mr. G. Laurence	5	1	0	700	1135	44·69	202
D Christow (Kennick)	S.C.Chapman,Esq.,C.E.	8	1	0	836	860	33·87	197
D ,, (Smithacott)	,, ,, ,,	5	1	6	861	944	37·16	197
D Moretonhampstead (Blackingstone)	,, ,, ,,	8	1	0	1158	994	39·13	197
D Christow (Laployd)	,, ,, ,,	5	1	6	1041	1016	39·99	196
D Moretonhampstead Rectory	Rev. S. D. Dewey	5	1	0	600	904	35·60	191
D ,, (Tower Pk.)	D. W. Horner, Esq.	5	1	0	642	896	35·29	199
D Chagford (Thornworthy)	H. B. Varwell, Esq.	5	1	0	1180	1742	68·60	164
6.—*EXE.* 445 *sq. mi.*								
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall	5	1	9	60	649	25·54	150
Exmouth (Douglas Avenue)	Mrs. Gillum	5	0	10	80	632	24·89	157
D ,, (Dagmar Road)	E. C. Thurgood, Esq.	5	1	6	60	588	23·14	148
D ,, (Nidderdale)	Mrs. Herbert Stewart	5	1	0	51	611	24·04	163
D ,, (Manor Grounds)	G.W.Ponsford,Esq.,C.E.	5	1	0	13	586	23·08	153
D ,, (Filters,SaltertonRd.)	,, ,, ,,	5	1	0	195	661	26·01	163
D ,, (,, Capel Lane)	,, ,, ,,	5	1	0	240	663	26·11	166
D Kenton	E. J. Pitt, Esq.	5	1	0	85	722	28·41	146
D Aylesbeare (Rosamondford)	A. T. Loram, Esq.	5	0	10	220	698	27·46	148
†Exeter (Franklyn, St. Thomas)	E. N. Snow, Esq.	9	1	6	65	780	30·73	..

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
SOUTH DEVON—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
6.—*EXE.*—(*con.*)								
D†Exeter (Devon&ExeterInst.)...	J. E. Coombes, Esq. ...	5	13	7	155	704	27·73	169
D ,, (The Close)	Rev. CanonD.McLaren..	5	1	1	140	707	27·83	179
D† ,, (Elmfield House)	W.B.Heberden,Esq.,C.B.	5	1	0	100	682	26·85	158
D ,, (Hele's School)	W. Littler, Esq.........	8	6	4	160	704	27·72	180
†Broad Clyst (Brockhill)	Mrs. Bayne............	5	1	0	80	730	28·74	202
D Upton Pyne (The Parsonage)	Rev. A. Hillyard	5	1	0	214	817	32·18	167
D†Brampford Speke Station	Mr. A. Tucker	5	1	0	79	756	29·78	146
D Crediton (Hookway)	A. F. Parbury, Esq. ..	5	1	0	150	818	32·19	173
D Silverton (Killerton)	Mr. J. Wilson	5	1	0	161	744	29·28	144
D Crediton (Okefield)	Capt. Seymour F. Pope..	5	1	0	325	864	34·01	186
D Copplestone(CoplestoneHouse) .	Miss Pope	5	0	11	315	908	35·76	197
D Cullompton..................	M. T. Foster, Esq.	5	1	0	202	841	33·12	200
D Tiverton (St. Peter Strret)	Miss Gill	5	6	0	270	901	35·48	199
,, (Hartnolls)	Maj.-Gen.F.A.Bowles,CB	5	1	6	226	903	35·56	188
D Hemyock (Windlehurst)	Miss M. E. Tedder	5	1	0	750	867	34·14	208
D Bampton (Huntsham Court) ..	Mr. M. Taylor	8	1	0	640	890	35·04?	173
,, (Oakford Rectory) ..	Rev. F. G. Buller	5	1	0	640	1023	40·26	142
7.—*AXE & C.* 237 *sq. mi.*								
D BudleighSalterton(Lindenwood)	Lt.-Col. J. H. Hamersley	5	1	0	130	654	25·73	160
,, ,, (Squabmoor)	G. W.Ponsford,Esq.,C.E.	5	1	0	267	700	27·55	172
†East Budleigh (Bicton Gardens)	Mr. G. H. Shoebridge ..	5	1	0	90	678	26·69	162
,, ,, (Yettington)....	G. W. Ponsford,Esq.,C.E.	5	1	0	300	700	27·58	..
D†Sidmouth (Sidmount)	Miss C. M. Radford.....	5	1	0	149	713	28·08	178
D ,, (,,)	,, ,, ,, ...	5	1	0	186	722	28·42	178
,, (Winslade Cottage) .	Miss G. Collins	5	1	0	150	790	31·12	..
,, (Salcombe Regis) ..	J. W. B. Unwin, Esq. .	5	0	7	340	723	*28·46*	..
Branscombe	*Devon & Exeter Gazette* ..	5	2	4	170	691	27·19	190
D†Seaton	Mrs. Pattinson.........	5	0	10	25	701	27·61	171
D Rousdon [Lyme Regis]	Mr. C. Grover	5	1	0	516	673	26·50	156
D Pinhay [,, ,, ,,]	Mr. J. F. Stobo	5	1	11	465	734	28·89	170
D Ware [,, ,,]	A. J. Woodroffe, Esq. .	5	0	10	318	709	27·90	165
D†Ottery St. Mary (West Hill) .	B. Stansbury, Esq.	5	1	6	340	764	30·10	193
D† ,, ,, ,, (Broad Street)	H. D. Badcock, Esq. ...	5	4	0	170	739	29·09	176
D† ,, ,, ,, (Manor Ho.) ..	W. A. Willock, Esq. ..	5	1	2	200	746	29·37	180
D Kilmington (Haddon Corner) ..	A. Hitchcock, Esq.	5	1	0	400	760	29·92	178
,, (,, ,,)	M ,, ,, ,, ...	5	1	0	400	764	30·07	..
,, (Summerleaze).	M ,, ,, ,, ...	5	1	0	82	729	28·68	..
D Membury (Green Down)	James Lee, Esq.	5	1	0	400	805	31·70	159
D Chardstock Vicarage..........	Rev. A Lewis	5	0	8	317	790	31·10	176
NORTH DEVON. (Area, 898 sq. mi.)								
1.—*NORTH COAST STREAMS.* 77 *sq. mi.*								
D†Woolacombe (Hotel Grounds) .	Miss Chichester	5	1	0	60	803	31·60	190
D†Morthoe (Twitchen House)	Dr. G. B. Longstaff ...	8	1	0	430	929	36·59	194
D†Ilfracombe (Reservoir)	O. M. Prouse, Esq., C.E.	5	1	0	395	1130	44·47	196
D† ,, (Bickleighscombe)..	Mrs. Slade King	5	1	0	300	1002	39·45	204
D ,, (Langleigh)........	H. B. Holland, Esq. ...	5	0	11	127	1006	39·61	189
D† ,, (MeteorologicalStn.) .	O. M. Prouse, Esq., C.E.	5	1	0	25	873	34·38	191
D Martinhoe Rectory	Rev. R. W. Oldham ...	5	2	3	808	990	38·96	188
Lynton (Lee Abbey)	C. F. Bailey, Esq. ..	5	0	6	320	910	35·84	..

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	ft.	in.	feet	mm.	inches	
NORTH DEVON —(*con.*)								
1.—*NORTH COAST STREAMS*—(*con.*)								
D Lynmouth (Gwynallt)	A. L. Ford, Esq.	8	0	8	284	1036	40·77	206
D ,, (Rock House)	T. H. Mead-Briggs, Esq.	5	0	11	22	992	39·04	227
2.—*TAW*. 442 *sq. mi.*								
D Chumleigh (Leigh House)	Mr W. Gillies	5	1	0	350	973	38·30	193
D Witheridge	H. J. Mansfield, Esq.	5	1	2	600	1028	40·49	177
D Rackenford Manor	F.J.ColeridgeBoles,Esq.	5	1	1	757	1168	45·99	169
D Warkleigh Rectory	Rev. J. H. Thompson	5	1	0	439	1013	39·89	210
South Molton	F. Day, Esq.	5	1	0	430	1243	48·93	186
D Filleigh (Castle Hill Gardens)	The Countess Fortescue	12	3	6	367	1146	45·11	209
D Molland	S. J. Case, Esq.	5	1	9	674	1345	52·95	213
D East Anstey (Rhyll Manor)	Mrs. Hancock	5	1	0	850	1158	45·60	170
D†Barnstaple(N.DevonAthenæum)	H. Greaves, Esq.	8	1	0	25	984	38·75	207
D† ,, (Fort Hill)	Rev. F. Sterry	5	2	3	200	989	38·94	203
† ,, (Pilton)	Major G. F. Hibbert	5	1	0	83	1054	41·49	206
D HeantonPunchardon(Chivenor)	Maurice E. Yonge, Esq.	5	1	8	18	902	35·51	187
D Braunton (Tyspane)	A. M. Norton, Esq.	5	1	0	95	1016	40·00	197
D Arlington Court	Miss Chichester	5	1	0	613	1282	50·49	199
D Challacombe	O. M. Prouse, Esq., C.E.	5	1	2	815	1558	61·35	192
3.—*TORRIDGE*. 342 *sq. mi.*								
D Okehampton (Oaklands)	Maj.-Gen. E. H. Holley	5	1	0	500	1174	46·24	185
Dolton (Hilliers)	A. Smythies, Esq.	5	1	3	380	914	35·99	163
D Beaford (Abbots Hill)	J. Stuckey, Esq.	5	5	0	380	828	32·59	176
D Torrington (Enfield)	G. M. Doe, Esq.	5	1	0	336	951	37·44	202
Parkham (Melbury Moor)	F. Harding, Esq.	5	1	0	633	1199	47·22	196
D ,, (,, Reservoir)	,, ,, ,,	5	1	0	517	1224	48·17	195
D Landcross (South Close)	Mrs. C. Hibbert	5	1	0	100	878	34·58	207
D Bideford (Webbery)	Mrs. C. E. Boyd	5	1	10	355	931	36·65	186
D ,, Rectory	Rev.Preb.NewtonLeeke	5	1	2	150	963	37·90	174
,, (Northam Road)	Mr. W. Littlejohns	5	0	6	20	938	36·94	148
,, (Slade Park)	J.C.T.Heriz-Smith,Esq.	5	1	6	188	901	35·49	189
,, (Horwood House)	Rev. J. Dene	5	1	0	188	852	33·53	196
D Northam (Fairlea)	Col. F. W. Bennet	5	3	0	190	847	33·36	173
D Westward Ho! (Bellevue)	A. H. Boyd, Esq.	8	1	0	200	839	33·01	185
,, ,, (RoyalGolfClub)	H. A. G. Bankes, Esq.	5	1	6	10	816	32·11	..
D Instow	Miss Lock	5	1	0	100	806	31·74	152
4.—*WEST COAST STREAMS*. 32 *sq. mi.*								
D Hartland Abbey	Mr. G. Sleep	5	1	6	222	914	35·98	158
D Clovelly Court	Mr. H. Tuke	5	0	11	360	1222	48·11	170
5.—*EXE*. 5 *sq. mi.*								
CORNWALL. (Area, 1357 sq. mi.)								
1.—*CAMEL & N.W. COAST STREAMS*. 458 *sq. mi.*								
Phillack Rectory	Rev. Canon A.P.Hockin	5	1	0	70	784	30·86	172
D Camborne (Boswyn Reservoir)	W. F. Bickford, Esq.	8	2	0	511	945	37·21	215
D†Redruth (Trewirgie)	A. P. Jenkin, Esq.	5	1	0	399	934	36·78	197
,, (GreenLaneNurseries)	*Press Cutting*	..	..		..	865	34·07?	..
†St. Agnes	W. C. Whitworth, Esq.	5	3	8	318	748	29·46	184
D†Newquay (Tresillian House)	Lt.Col.E.Gully-Bennet	5	2	0	290	895	35·24	174
D† ,, (Mount Wise) ..No 1	Miss G. Kennick	5	1	0	190	817	32·13	192
D Bodmin (Polgwin)	H. D. Foster, Esq.	5	1	0	400	1069	42·10	201

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	CORNWALL—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*CAMEL & N.W. COAST STREAMS—(con.)*								
D	Bodmin (Castle Hill House)	W. G. Wales, Esq., C.E.	5	1	0	484	1114	43·85	196
	Helland (Tredethy)	Mrs. Hext	5	1	6	..	967	38·07	190
	Camelford (StannonClayWorks)	N. CornwallChinaClayCo	8	1	0	800	1212	47·72	188
	Bude (Shalder Hill)	F.J.Worden,Esq.*per*M.O.	5	1	0	51	823	32·40	167
D	,, (Bramble Hill)	J.E.BarclayBevan,Esq.	5	0	8	100	874	34·43	200
D	Morwenstow Vicarage	Rev. H. Lynne Jones	5	0	10	331	963	37·92	213
D	,, (Torracombe Manor)	W. W. Martyn, Esq.	5	1	0	450	956	37·64	173
	2.—*FOWEY & S.E. COAST STREAMS.* 620 *sq. mi.*								
	Lizard M	A. P. Jenkin, Esq.	5	1	0	244	785	30·92	..
D	Cadgwith (Coastguard Houses)	Miss H. F. Shepherd	5	1	0	180	825	32·48	182
	Mullion (Polurrian Hotel)	Mr. R. Thomas	5	1	0	230	752	29·59	145
D	,, (Dry Tree)	P. A. Smee, Esq.	6	1	8	370	863	*33·99*	*195*
	St. Keverne (Lanarth)	P. D. Williams, Esq.	5	1	10	290	967	38·08	213
D	,, ,, (Rosuick Cottage)	G. W. Jevons, Esq.	5	1	0	250	994	39·12	214
	Bosahan	Cornwall County Council	..	..		240	702	27·62	144
	Penzance (Trewidden)	Mr. J. H. Murley	5	0	5	..	1035	40·76	197
D†	,, (Morrab Garden)	C. H. Benn, Esq.	5	1	0	55	951	37·43	200
	,, (Rosehill) (R)	David Howell, Esq.	10	3	0	212	743	29·26	191
†	,, (Trengwainton House)	T. Robins Bolitho, Esq.	10	1	0	400	1106	43·55	181
D	,, (County School)	Lance Webb, Esq.	8	0	6	155	1023	40·28	217
	Marazion	T. Field Michell, Esq.	5	2	0	30	924	36·38	153
	,, (Porth-en-alls)	F. F. Page, Esq.	5	1	0	..	904	35·61	..
	Falmouth (NewObservatory)(R)	Meteorological Office	11	2	0	169	920	36·20	185
D	Penryn (Ashfield)	J. G. Stephens, Esq.	5	1	1	95	858	33·77	168
	Devoran (Council School)	W. R. Cock, Esq.	..	..		..	699	27·51	..
D†	Redruth (Trevince)	E. B. Beauchamp, Esq.	8	1	0	240	984	38·75	207
	Truro (Killiow)	Miss Daubuz	5	1	0	230	939	36·98	197
D	,, (Tregolls)	Miss C. L. Rashleigh	5	1	0	65	905	35·62	197
	,, (Penair)	H. H. Williams, Esq.	5	..		250	929	36·59	..
D†	,, W.W.(Lower Tregurrow)	W. J. Lean, Esq.	5	1	0	71	951	37·46	185
D	Fowey	C. T. Wellington, Esq.	5	1	0	51	805	31·70	164
D†	,, (Torfrey)	T. G. Mills, Esq.	5	0	6	250	989	38·94	150
D†	St. Austell (Trevarna)	W. M. Coode, Esq.	5	1	0	300	1018	40·10	199
	,, (Charlestown)	C. A. Battiscombe, Esq.	5	0	3	220	1001	39·41	184
D	Looe (Morval)	H. M. Tremayne, Esq.	5	1	0	150	988	38·89	141
D†	Lostwithiel (Lanwithan)	Miss Foster	5	1	0	80	1024	40·30	196
D	Liskeard (Herodsfoot Vicarage)	Rev. J. W. Timson	5	1	2	..	1101	43·34	155
D	,, (St. Pinnock Rectory)	Rev. S. H. Farwell Roe	5	0	3	400	1284	50·54	210
D†	,, (Trevillis)	L. C. Foster, Esq.	5	1	0	320	1020	40·14	199
	3.—*TAMAR & C.* 279 *sq. mi.*								
D	Empacombe [Devonport]	J. Sandercock, Esq.	5	1	0	20	787	30·97	181
	Cremyll [Devonport]	CornwallCountyCouncil	5	10	0	25	1412	55·59	210
D	St. Germans (Fairfield)	Dr. J. Wallis Gill	5	2	0	170	880	34·66	156
	Saltash (Pentillie Castle)	Mr. W. T. Johnson	5	2	4	150	1063	41·87	182
	St. Mellion Rectory	Rev. F. T. Wintle	5	1	0	400	1015	39·98	205
D	Callington (Pencrebar)	Miss Horndon	5	1	9	450	1044	41·09	199
D	Albaston	N. R. Rosekilly, Esq.	5	4	0	600	866	34·08	185
D	Launceston (Landue)	Miss S. E. Tregoning	5	0	11	225	999	39·35	219
D	,, (Hexworthy)	R. B. Rogers, Esq.	5	1	0	270	933	36·73	201
D	Altarnon Sanctuary	Rev. A. H. Malan	5	1	0	620	1441	56·74	228

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	CORNWALL—(con.)								
	3.—*TAMAR & c.—(con.)*								
D	Launceston (Old Tree House)	Mrs. Saunders	8	1	6	600	867	34·13	143
	Egloskerry (Tregeare)	E. G. B. Lethbridge, Esq.	5	1	0	575	692	27·25?	..
	North Tamerton (Davies)	Mrs. Bray	5	4	0	390	903	35·57	174
	4.—*INSULAR—Isles of Scilly.*								
	St. Mary's	Meteorological Office	8	1	6	131	810	31·89	228
	Tresco Abbey	T.A.Dorrien Smith, Esq.	11	3	0	40	872	34·32	221
	SOMERSETSHIRE. (Area, 1630 sq. mi.)								
	1.—*LOWER AVON.* 300 *sq. mi.*								
	Wanstrow (The Manor Cottage)	P. E. B. Warburton, Esq.	5	1	0	465	973	38·31?	..
	Shepton Mallet (Pondsmead)	Mr. J. Fletcher	8	1	0	710	1222	48·09	174
D	,, ,, (Hillylands) ,,	Lady Reid	5	0	10	659	1245	49·02	179
D†	Frome W.W. (Egford)	L. Slaughter, Esq.	8	2	0	270	965	38·01	214
D†	,, (Selwood School	Miss E. M. Coombs	5	0	9	320	895	35·23	174
D	Mells (Selwood)	Miss E. G. Horner	5	1	0	344	926	36·46	204
D	Binegar (Gurneyslade)	Rev. G. B. Hicks	5	1	0	588	1112	43·79	170
D	Stratton on Fosse (Downside Ab.)	,, ,, ,,	8	1	0	600	1088	42·84	184
D	Frome (Beckington)	E. M. Nelson, Esq.	8	1	3	270	856	33·71	178
D	,, (,, The Cedars)	F. E. Rogers, Esq.	5	1	8	260	878	34·58	164
D	Chewton Mendip (The Priory)	Earl Waldegrave	5	1	0	550	1204	47·40	197
D	,, ,, (Waldegrave Ho.)	J. Hollis, Esq.	5	1	1	440	1130	44·48	189
D	Midsomer Norton (Island Ho.)	Dr. G. S. Pollard	5	1	6	300	1034	40·73	173
D	,, ,, (Dymboro)	Dr. A. Bulleid	5	1	0	357	1014	39·93	169
	Radstock	G. H. Gibson, Esq.	8	8	0	330	991	39·03	..
D	E. Harptree (Sherborne Res.)	J.A.McPherson, Esq. C.E.	5	1	0	338	1159	45·65	179
	Harptree Hill	,, ,, ,,	8	1	0	784	1156.	45·50	..
D	Temple Cloud	Dr. Theodore Martin	5	1	0	340	1025	40·34	179
D	Clutton (Council School)	J. Pullen, Esq.	5	1	6	420	1116	43·93	170
D	Pensford (Sutton Court)	Lord Strachie	8	1	0	280	956	37·65	200
	Monkton Combe (Crossways)	M. J. Lipscomb, Esq.	5	1	0	180	930	36·62	..
D	Bath (Combe Down)	Miss Scriven	5	5	0	500	927	36·49	192
D	Pensford (Houndstreet House)	H.LeybornePopham, Esq.	5	0	9	400	946	37·24	171
	Chew Magna	J.A.McPherson, Esq., C.E.	5	1	4	180	976	38·41	157
D	Pensford (Publow School Ho.)	A. Hayes, Esq.	5	1	0	230	935	36·81	166
D†	Bath (Henrietta Park)	Bath Corporation	5	1	0	67	854	33·62	162
D	,, (Statutory Hospital)	,, ,, ,,	5	1	0	520	871	34·29	149
D	,, (Charlcombe)	J. DentYoung, Esq., C.E.	8	1	0	325	877	34·52	174
D	Saltford House	Col. W. V. Rolleston	8	0	8	100	847	33·34	179
D	Batheaston Reservoir	J. Dent Young, Esq., C.E.	6	2	0	248	924	36·38	196
	Barrow Gurney Reservoir	J.A.McPherson, Esq., C.E.	5	1	6	300	979	38·53	188
D	Long Ashton (Agric. Station)	E. P. West, Esq.	8	0	9	165	887	34·93	180
D	,, ,, (Estate Office)	H. B. Napier, Esq.	8	1	0	134	955	37·61	178
D†	Failand House	Miss Agnes Fry	5	1	0	385	915	36·03	205
	Portishead (Woodside Cottage)	E. Harvey, Esq.	5	1	2	150	838	33·01	..
	2.—*YEO, AXE & BRUE.* 405 *sq. mi.*								
D	Castle Cary (Alford House)	Admiral P. F. Tillard	5	1	6	98	928	36·53	167
D	Somerton (Butleigh Court)	R.NevilleGrenville, Esq.	8	1	2	95	871	34·31	164
	,, (,, Gardens)	,, ,, ,,	..	..	..	..	821	32·34	..
D†	Bruton (Pitcombe Vicarage)	Rev. F. P. Synge	5	2	4	280	971	38·24	184
D†	,, (King's School)	Rev. H. A. Boys	5	1	2	200	1066	41·96	185

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
			Diam.	Height Above Ground		Height Above SeaLevel	1917		
	SOMERSETSHIRE—(*con.*,		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*YEO, AXE & BRUE*—(*con.*)								
	Street (Leigholt Reservoir)	W. J. Goode, Esq., C.E.	..	..		180	755	29·73	..
D	,, (Overleigh House)	J. B. Clark, Esq.	5	0	8	100	792	31·17	164
D	,, (Hind Hayes)	Joseph Clark, Esq.	5	1	5	78	793	31·24	164
D	,, (Millfield)	W. S. Clark, Esq.	8	1	0	100	798	31·43	172
	,, (Council Yard)	W. J. Goode, Esq., C.E.	..	..		64	770	30·32	..
D	Glastonbury (Wyrral)	J. Morland, Esq.	5	0	8	110	777	*30·58*	153
D	Chilton Polden...............	H. R. Carver, Esq. ...	5	1	0	90	756	29·78	169
D	Shepton Mallet (Pilton)	J. D. Allen, Esq.	5	1	3	354	978	38·51	195
D†	,, ,, (Charlton)	C. E. Burnell, Esq.	5	1	0	481	1000	39·38	181
	,, ,, (Field House)	F. H. Berryman, Esq. .	5	1	0	500	996	39·22	..
D†	,, ,, (Grammar Sch.)	William Aldridge, Esq.	5	1	0	475	993	39·11	200
	Wells (The Vicarage)	Ven.ArchdeaconWFarrer	5	1	0	135	980	38·58	..
D	,, (Somerset & Bath Asym.)	J. E. P. Shera,Esq.M.D.	5	1	0	300	828	32·61	167
†	,, (WookeyHolePaperMills)	W. S. Hodgkinson & Co.	5	1	4	180	930	36·60	..
	Rodney Stoke (Street, W.W.) .	W. J. Goode, Esq., C.E.	..	..		125	715	28·16	..
D	Burnham(DunstanHo.Chalbury)	H. A. Smith Spark, Esq.	5	1	0	20	809	31·84	167
D	,, ...	W. H. Chowins,Esq.,C.E.	8	0	9	24	747	29·40	166
D	,, (Brent Knoll)	Miss FitzGerald	5	2	0	26	818	32·21	163
	Compton Bishop (Crook Peake)	A. E. Stephens, Esq. ..	8	0	3	115	864	34·01	..
	,, Martin	J.A.McPherson.,Esq.,C.E	8	1	0	276	1118	44·02	..
	Ubley (Rookery Farm)	,, ,, ,,	8	1	0	525	1193	46·97	..
D	Blagdon(Nordrach-on-Mendip)	W.R.Thurnam,Esq.M.D.	5	0	4	862	1202	47·32	199
D	Winscombe (The Down)	J. Grubb, Esq..........	5	1	0	295	944	37·15	190
D	Banwell (Eversley)	Kenneth Anderson, Esq.	5	1	6	50	884	34·81	156
	Blagdon Hill	J.A.McPherson,Esq.,C.E.	8	1	0	550	1020	40·17	..
	,, (Pumping Station)	,, ,, ,,	8	0	8	112	929	36·57	179
	,, (Coombe Lodge)	,, ,, ,,	8	1	0	388	1011	39·79	..
	Ubley (Pixey Hole)...........	,, ,, ,,	8	1	0	300	935	36·82	..
	Nempnett (West Town)	,, ,, ,,	8	1	0	263	957	37·69	..
	Burrington (Burrington Link) .	,, ,, ,,	8	1	0	335	1008	39·69	..
D	,, (Langford)	Miss M. B. Smith	5	1	8	40	932	36·71	187
D†	Weston-spr-Mare(LeycroftHo.)	C. Brown, Esq.	8	1	0	15	820	32·27	164
D†	,, ,, ,, (ClarencePark)	W. H. Allen, Esq.	5	1	2	28	858	33·80	159
	,, ,, ,, (Kewstoke) ..	H. Ruddle, Esq.	5	1	0	40	826	32·53	..
	Butcombe (Cholwell)	J.A.McPherson,Esq.,C.E.	8	1	0	370	967	38·08	..
D	Wrington (The Cottage).......	H. C. Bristowe,Esq.,M.D.	5	6	0	100	874	34·42	139
D	,, (The Rectory)	Rev. G. M. Ashdown ...	5	5	0	68	893	35·17	167
D	,, (West Hay)........	Miss M. C. Meade-King .	5	1	8	98	893	35·15	174
	Yatton (Chelvey)	J.A.McPherson,Esq.,C.E.	8	0	8	60	935	36·81	148
D	Flax Bourton (BackwellHillHo.)	W. Garnett, Esq.	8	1	10	490	1183	46·56	176
D	,, ,, (The Grange) ..	C. Onslow Master, Esq. .	5	1	0	180	836	32·91	145
D†	Clevedon W.W. (Old Street) .	J. Harger Pye, Esq. ..	5	1	10	28	823	32·39	*163*
D†	,, ,, (TickenhamRd.)	,, ,, ,, ..	5	1	6	70	826	32·51	196
D†	,, (Bowling Green)	Major A. B. Trestrail .	5	0	11	126	884	34·79	158
	Wraxall (Boys' School)	Ebenezer Brown, Esq.	5	1	2	..	865	34·07	166
	,, (Rectory	Mrs. Vaughan	8	3	0	100	881	34·70	170
	3.—*PARRETT.* 568 *sq. mi.*								
D	Crewkerne (The Reservoir)	E. H. Munford, Esq. ..	8	1	0	426	725	28·54	183
D	,, (Bincombe House) .	Miss Sparks	5	1	2	294	767	30·18	187

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	SOMERSETSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*PARRETT.* (*con.*)								
D	Crewkerne (Merefield House)	J. Tompsett, Esq.	8	1	1	231	773	30·45	172
	Coker Court Gardens	Mr. T. H. Gilham	8	1	6	250	764	30·09	..
D	West Coker	G. F. Deedes, Esq.	5	1	6	265	637	25·09	170
D	Ilminster (Laurel Bank)	W. Beckwith, Esq.	5	1	0	180	725	28·53	163
D	,, (WhitelackingtonHo.)	S. Creed, Esq.	5	3	0	200	726	28·58	167
D	,, (DillingtonPark) .. (R)	Mr. W. Goldthorpe	8	3	0	161	780	30·72	145
D	Yeovil (Gas Works)	G. Fenwick, Esq.	5	22	0	122	675	26·59	157
D	,, (PenMillSewageWorks)	Dr.A.E.RemmettWeaver	5	1	0	102	692	27·26	192
D	Wellington (Old Way House)	T. Fox. Esq.	5	1	1	300	785	30·90	190
D	Stoke-under-Ham	Miss Gillett	8	1	0	80	684	26·95	151
D	Tintinhull (Manor House)	Rev. Dr. S. J. M. Price	5	0	10	145	707	27·83	144
D	Angersleigh (Blagdon Res.)	H. T. Coles, Esq.	8	1	6	590	762	29·99	138
D	,, (Leigh Hill Res.)	,, ,, ,,	8	1	6	525	754	29·68	138
D	,, (,, Court)	A. Eastwood, Esq.	8	1	0	360	786	30·93	176
D	Milverton (Spring Grove)	C. Roberts Gawen, Esq.	5	0	8	500	929	36·57	213
D	Taunton (The Park)	Dr. H. J. Alford	5	1	0	70	772	30·38	167
D	Wiveliscombe (Culverhead)	T. R. Marsh, Esq.	5	1	0	450	1028	40·48	174
D	Langport (The Grange)	Rev. H. A. Boys	5	1	0	50	701	27·60	180
D	,, (Huish Episcopi)	Miss A. M. Kelway	8	1	1	30	621	24·44	156
D	Milverton (The Mount, Halse)	Miss S. C. Smith	5	1	2	254	854	33·62	188
D	Wincanton (Maperton House)	Mr. L. G. Read	5	1	3	..	880	34·65	202
D†	North Cadbury Rectory	Rev. H. A. Boys	8	1	3	256	827	32·58	177
	Cothelstone House	C. E. J. Esdaile, Esq.	5	1	0	430	950	37·38	158
D	North Petherton (Shovell)	A. M. Wilson, Esq.	8	1	0	216	790	31·11	168
D	,, ,, (The Old Rectory)	E. Constable Curtis, Esq.	8	0	6	136	830	32·69	161
D	Aisholt (Timberscombe)	W. T. White, Esq.	5	1	2	700	970	38·20	173
D	Bridgwater (Blake Gardens)	F. Parr, Esq., C.E.	5	3	1	27	760	29·92	166
D	,, (Ashford)	,, ,, ,,	5	1	5	102	831	32·71	168
D	,, (Northfield)	H. C. Salmon, Esq.	5	5	6	50	763	30·05	159
D	Cannington (Brymore)	H.H.P.Bouverie,Esq.	5	2	0	65	792	31·17	163
	4.—*NORTH COAST STREAMS.* 158 *sq. mi.*								
	Williton (Aller Farm)	T. Hosegood, Esq.	5	2	6	175	881	34·67	166
	Holford (Dytche School)	J. E. Overend, Esq.	5	1	0	260	809	31·87	155
D	Quantockshead (St. Audries)	Mr. F. S. Hayne	8	1	0	260	752	29·60	141
D	Dunster (The Schools)	E. S. Cantle, Esq.	5	1	0	200	833	32·81	166
D†	Minehead (Mariansleigh)	T. F. Twist, Esq.	5	1	0	45	778	30·65	153
†	,, (Clanville)	Sir R.S.Adair,Bt..*per* MO	5	1	0	105	758	29·84	160
	Porlock (LynchMead,Allerford)	J. Dyke Acland, Esq.	5	1	3	100	823	32·41	191
	5.—*EXE* 122 *sq. mi.*								
D	Dulverton (Exebridge Fishery)	T. F. Tracy, Esq.	5	1	0	410	1067	42·00	185
D	Brushford Rectory	Rev. B. J. du Boe	5	1	0	450	1061	41·78	192
D	,, Nurseries	Mr. G. Ruff	5	1	2	400	1057	41·63	208
D	Hawkridge (Liscombe)	Mr. E. W. Darby	5	3	6	980	1453	57·20	234
D	Winsford School	W. Dicker, Esq.	5	1	2	685	1368	53·86	*191*
D	Cutcombe (Wheddon Cross)	H.H.P.Bouverie, Esq.	5	1	2	945	1277	50·29	187
	Exford (North Ley)	F. G. Heal, Esq.	5	5	0	1000	1437	56·57	..
	6.—*AXE* 42 *sq. mi.*								
D	Cricket St.Thomas(CricketHo.)	Mr. H. M. Harvey	5	1	0	444	867	34·12	170

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	SOMERSETSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	7.—*STOUR.* 35 *sq. mi.*								
D	Temple Combe Rectory	Rev. J. C. Fox	5	0	6	215	852	33·55	171
D	Wincanton (RoundhillGrange)	Maj.-Gen C. H. P. Ducat	5	1	9	380	927	36·51	176

DIVISION VI.—WEST MIDLAND COUNTIES.

	STATIONS.	AUTHORITIES.	Diam.	Ground ft.	in.	Sea Level	mm.	inches	Days
	GLOUCESTERSHIRE. (Area, 1243 sq. mi.) ..								
	1.—*WYE.* 50 *sq. mi.*								
D	Castleford [Chepstow]	Mrs. W. R. Lysaght	5	0	8	146	819	32·24	168
D	Pen Moel [,,]	W. R. Price, Esq.	5	1	0	240	823	32·42	177
	Forest of Dean (MailscotLodge)	C.O.Hanson,Esq.*per*M.O.	8	1	0	630	813	32·04	159
..	,, ,, (Ruardean Hill Lo.)	,, ,, ,, ,,	8	1	0	932	816	32·11	178
D	Lydbrook (Viaduct House)	G. S. Damsell, Esq.	5	1	0	95	775	30·51	189
	2.—*SEVERN—Right:Bank Tributaries.* 176 *sq. mi.*								
	Sedbury Park [Chepstow]	Col.P.S.Marling,V.C.,C.B.,	8	1	0	175	779	30·69	..
D	Lydney (Clanna)	Captain W. B. Marling	5	1	0	260	832	32·75	166
	Forest of Dean(WhitmeadPark)	C.O.Hanson,Esq.,*per*MO.	8	1	0	200	820	32·29	168
	,, ,, ,, (BlakeneyHillLo.	,, ,, ,, ,,	8	1	0	500	774	30·47	156
	,, ,, ,, (Worcester Ldge)	,, ,, ,, ,,	8	0	11	712	826	32·54	159
	,, ,, ,, (Edgehills Lodge)	,, ,, ,, ,,	8	1	0	914	811	31·84	176
D	Cinderford (Belle Vue Road)	Dr. J. N. Beadles	5	1	1	780	874	34·42	165
D	Westbury-on-Severn((Chaxhill)	Mrs. Grant	5	3	0	122	705	27·76	185
	Dymock Woods	Meteorological Office	..		..	232	619	24·36	166
D	Tewkesbury (Forthampton Ct.)	Mr. H. French	5	1	0	48	719	28·31	145
D	,, (Upper Lode)	E. J. Bradley, Esq.	5	1	0	41	615	24·23	162
D	Bromsberrow Pumping Station	W.OsborneThorp,Esq.C.E	5	1	0	181	579	22·79	152
	3.—*SEVERN—Left Bank Tributaries.* 372 *sq. mi.*								
D	Wickwar	F. G. Ansell, Esq.	5	1	0	260	782	30·77	141
	Thornbury (Thornbury House)	H. V. Gillett, Esq.	5	2	1	110	729	28·71	..
	Tortworth Court	The Earl of Ducie	8	1	0	264	804	31·65	168
	,, School	Mrs. K. E. Smith	5	2	0	264	796	31·35	..
	Dursley (Woodmancote)	E FryerSmithEsq.*per*M.O	5	1	0	257	882	34·68	..
	Avening House	Lady Eleanor Byng	8	1	3	350	821	32·33	..
	Berkeley Castle Gardens	Mr. S. Wathen	5	1	6	62	774	30·48	..
D	,, (Sharpness Docks)	F. A. Jones, Esq., C.E.	5	3	6	50	736	28·99	167
	Minchinhampton(Rowan Cott.)	E. Metcalfe Day, Esq.	5	1	0	630	807	31·78	*170*
D	,, (CampField)	Piers F. Legh, Esq.	5	1	6	650	812	31·97	157
D	Stroud (Stanley Park)	Sir W. H. Marling,Bart.	8	1	0	365	817	32·16	149
D	,, (Field Place)	A. W. Stanton, Esq.	5	1	0	226	731	28·77	179
D	Stonehouse (Wycliffe College)	W. A. Sibly, Esq.	5	1	0	130	745	29·35	156
	,, (Parklands)*No.*1(R)	W. Grey Robinson, Esq.	8	2	6	103	727	28·62	172
	,, (,,)..*No.* 2	,, ,, ,,	5	2	6	103	726	28·60	171
	Stroud (Park Farm, Lypiatt)	E. Armitage, Esq.	5	0	6	720	858	33·79	..
D	Whitminster (Junction Lane)	F. A. Jones, Esq., C.E.	5	1	0	32	853	33·59	197
	Haresfield Court	R. I. Tidswell, Esq.	5	1	0	100	821	32·31	192
D	Harescombe Grange	Stamford Hutton, Esq.	5	1	0	557	793	31·24	190
	Hardwicke (Stanley House)	Mr. H. C. Prinsep	8	1	0	22	745	29·34	..
	Quedgeley House	Col. T. Curtis Hayward	5	1	0	65	712	28·05	156
	Witcombe Reservoir	R. Read. Esq., C.E.	8	3	0	297	718	28·26	..
D	Gloucester (The Park)	G. Embrey, Esq.	8	1	3	56	713	28·07	192

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	GLOUCESTERSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*SEVERN—Left Bank Tributaries*—(*con.*)								
	Gloucester (Denmark Road)	A. J. Stephens, Esq.	5	1	0	80	632	24·90	..
	,, (,, ,,)	Harley Butt, Esq.	5	1	5	79	628	24·73	181
D	,, (Barnwood Vicarage)	Rev. F. H. Fowler	5	1	0	80	734	28·91	180
D	,, (Llanthony Lock)	E. J. Bradley, Esq.	5	1	2	39	653	25·71	158
D	,, (Maisemore Lock)	,, ,, ,,	5	1	1	39	603	23·73	168
D	Churchdown (Barrow Hill)	Mrs. J. H. Jones	5	1	0	225	673	26·49	177
D	Dowdeswell Reservoir	J. S. Pickering, Esq., C.E.	5	1	3	357	750	29·53	159
	Cheltenham (Thirlestane Hall) (R)	J. Player, Esq.	8	2	6	240	596	23·45	162
D†	Charlton Kings (The Grange)	Miss E. M. Heberden	5	0	9	300	700	27·57	187
D	Cheltenham (Hewletts Res.)	J. S. Pickering, Esq., C.E.	8	1	6	419	653	25·72	187
D†	,, (Sandford Mead)	,, ,, ,,	5	2	6	210	640	25·18	165
†	,, (Kemerton Lodge)	Rev. Percy Burd	5	1	0	211	697	27·45	195
D	,, (Old Bath Road)	F. A. Jones, Esq., C.E.	5	1	0	290	678	26·68	174
†	,, (Elmfield)	Major F. Fawkes	5	1	2	220	609	23·98	145
	,, (High Street)	A. C. Saxby, Esq., *per* MO	5	1	0	214	575	22·64	..
D	,, (Oxford Lawn)	Miss G. Jones	5	1	4	230	618	24·33	172
D	,, (Brookville, Swindon)	J. C. M. Stanton, Esq.	8	1	2	137	639	25·17	179
D	Tewkesbury Pumping Station	J. S. Pickering, Esq., C.E.	5	0	9	47	674	26·55	173
	Beckford Hall	Capt. H. A. Case	..	1	0	130	671	26·40	..
	4.—*SEVERN—Upper Avon.* 99 *sq. mi.*								
D	Winchombe	Dr. J. Halliwell	5	1	2	295	741	29·16	197
D	Childswyckham Vicarage	Rev. J. E. Tompson	5	1	9	180	637	25·08	190
D†	Chipping Campden (Hidcote)	Major W. Wright	5	1	0	525	587	23·13	159
D†	Mickleton (Bank House)	M. J. Salter, Esq.	5	1	0	233	572	22·51	169
	5.—*LOWER AVON & C.* 198 *sq. mi.*								
D	Monkswood Reservoir [Bath]	J. Dent Young, Esq. C.E.	5	2	0	365	895	35·22	209
D	Bristol Docks (Underfall Yard)	Engineer, Bristol Docks.	8	19	6	45	753	29·66	170
	,, (Telephone Avenue)	J. A. McPherson, Esq., C.E.	5	50	0	80	861	33·88	169
	Clifton (Oakfield Road)	,, ,, ,,	5	1	0	200	850	33·46	177
D	,, (Harley Place)	Miss Hooper	5	1	5	260	889	35·02	204
D	,, College	D. Rintoul, Esq.	8	1	2	230	811	31·92	166
D	,, (Stoke Bishop)	H. L. P. Lowe, Esq.	8	1	3	230	813	32·00	173
D	Filton	F. W. Gayner, Esq.	5	2	0	202	719	28·29	155
D	Winterbourne (Kendleshire)	J. Marsh, Esq.	5	1	0	170	746	29·37	157
D	,, Down (Elm Croft)	Hugh T. Coles, Esq.	5	1	0	250	763	30·05	183
D	Frampton Cotterell (Park Ho.)	H. H. Harding, Esq.	5	1	0	158	681	26·81	173
D	Chipping Sodbury (The Ridge)	Lt.-Col. P. Burges	5	1	4	375	720	28·36	167
	Almondsbury (Over Court Park)	Meteorological Office	5	1	0	147	759	29·88	178
	Badminton Gardens	Mr. J. Pearce	5	1	0	407	854	33·64	193
	6.—*THAMES—Right Bank Tributaries.* 15 *sq. mi.*								
	7.—*THAMES—Windrush & C.* 333 *sq. mi.*								
D	Fairford (Dunfield, Kempsford)	A. T. Iles, Esq.	5	0	8	260	695	27·37	178
D	,, (Draycott)	C. W. Edmonds, Esq.	5	2	0	200	711	28·00	158
D	Lechlade (St. John's Lock)	R. A. Swarbrick, Esq.	5	2	0	239	669	26·34	148
D	,, (Claydon House)	T. T. S. Metcalfe, Esq.	5	1	0	250	684	26·93	185
	,, (Southrop)	Thomas Arkell, Esq.	..	1	0	..	701	27·62	..
D†	Cirencester (Cripps Mead)	Mrs. Wilfred Cripps	5	0	8	366	774	30·48	183
D†	,, (Dollarward House)	C. P. Hooker, Esq.	5	1	6	366	815	32·10	195
D†	,, (,, ,,)	,, ,, ,,	8	1	6	366	803	31·60	195
	Colesborne Park	H. J. Elwes, Esq.	5	0	9	538	804	31·67	146

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
GLOUCESTERSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
7.—*THAMES—Windrush & C.*—(*con.*)								
D Great Barrington	H. J. Barrett, Esq.	5	1	6	430	739	29·09	169
D Northleach (Sherborne House)	Mr. A. Mitchell	5	1	0	420	771	30·36	145
D ,, (The Vicarage)	Rev. R. C. S. Jones	5	0	9	545	755	29·72	167
D ,, (Leygore Manor)	Arthur E. Moss, Esq.	5	1	0	650	764	30·07	187
Bourton-on-the-Water(Eastfield	E. W. Kendall, Esq.	5	1	6	434	748	29·46	161
D ,, ,, ,, (Chardwar)	G. F. Moore, Esq.	5	2	6	430	750	29·52	167
,, ,, ,, Rectory	Rev. W. E. White	5	0	10	433	750	29·52	170
Stow-on-the-Wold (IcombPlace)	GHSimpson HaywardEsq	8	1	3	500	750	29·52	154
D ,, ,, ,, (Quar Wood)	Mrs. Bryant	5	1	0	690	772	30·39	180
D ,, ,, ,, (Maugersbury)	D. W. Horner. Esq.	5	1	0	590	775	30·53	203
,, ,, ,, (DuncombHo.)	R. I. Arkell, Esq.	5	0	9	700	753	29·64	..
HEREFORDSHIRE. (Area, 840 sq. mi.)								
1.—*WYE.* 685 *sq. mi.*								
D Weston-under-Penyard	Dr. G. W. Prevost	5	0	11	290	663	26·09	146
D Ross (Chasedale Observatory)	F. J. Parsons, Esq.	5	1	0	202	650	25·61	164
D† ,, (Birchlea)	Miss M. L. Southall	5	1	0	210	711	28·00	177
D Kentchurch Rectory	Rev. R. P. Dansey	5	1	0	215	854	33·64	178
†Ross (Perrystone Court)	Brig.-Gen.G.S.Clive,D.S.O	5	1	3	450	681	26·81	..
Brockhampton Court	Col. A. W. Foster	8	4	0	..	765	30·13	..
Fownhope (Lower House)	Miss F. Cresswell	5	1	5	200	743	29·26	175
D ,, (Morney Cross)	A. P. Maudslay, Esq.	5	0	8	190	700	27·57	165
D Woolhope (The Hyde)	J. A. Thompson, Esq.	5	1	0	440	702	27·64	167
Bullinghope Vicarage	Rev.PrebH.T.Williamson	5	1	0	251	638	25·12	169
D†Hereford (Belmont Priory)	Rev.W.G.Sweeney,O.S.B.	8	1	0	291	684	26·94	148
D ,, (Breinton Court)	H. A. Wadworth, Esq.	5	3	0	238	638	25·12	163
D† ,,	W. Cooke, Esq.	8	0	10	197	649	*25·57*	*160*
D ,, (Barton Lodge)	W. R. Bufton, Esq.	5	1	0	200	612	24·09	169
† ,, (Hinton Court)	A. Battiscombe, Esq.	5	1	0	185	660	25·99	167
D† ,, (Holmer Hall)	Rev. Preb. M. Hopton	8	1	3	241	685	26·97	188
D Credenhill (Stretton Sugwas)	Capt. S. H. Armitage	5	1	0	226	649	25·56	184
D† ,,	F. E. Whiting, Esq.	5	1	5	275	688	27·09	178
D†Burghill Court	Miss E. D. Woodhouse	5	1	2	293	667	26·28	178
D†Ocle Pychard (Ocle Court)	G. Cresswell, Esq.	8	1	2	298	689	27·14	187
D Whitney-on-Wye	Mr. W. Burgess	8	1	0	428	907	35·71	190
D Brilley Vicarage	Rev. W. Head	5	1	0	590	885	34·85	188
†Sarnesfield Rectory	Rev. W. Marshall	5	0	11	400	718	28·28	140
Weobley School	A. J. Dean, Esq.	5	1	0	320	779	30·69	161
D†Pencombe Rectory	Rev. J. SeymourSt.John	5	1	0	520	720	28·33	172
D Huntington Court	E.RadclyffeCrump,Esq.	5	1	1	833	961	37·84	186
D†Pembridge (Dilwyn)	Dr. T. Lambert Hall	5	0	8	290	763	30·05	169
† ,, (Burton Court)	Lieut.-Col. P. L. Clowes	5	1	0	400	778	30·63	177
D Bromyard (Dumbleton Cottage)	T. V. Philpott, Esq.	5	1	0	393	706	27·81	171
D† ,, (Rowden Abbey)	H. J. Bailey, Esq.	5	1	0	450	763	30·06	178
D† ,, (Buckenhill)	Mrs. Phipps	8	1	6	410	677	26·64	155
D†Kington (Lynhales)	H.MitchellHendersonEsq	5	0	11	566	862	33·93	157
D† ,, (Gravel Hill)	Col. G. F. Pearson	5	0	8	535	873	34·39	198
D†Pembridge (Marston)	H. Langston, Esq.	5	1	5	347	764	30·07	167
D ,, (Byletts)	Gen.SirE.Wood,K.C.B.	5	1	5	350	729	28·71	172

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm*	*inches*	
	HEREFORDSHIRE—(*con.*)								
	1.—*WYE*—(*con.*)								
D	Kimbolton (Grantsfield)	Miss E. Hutchinson	5	1	0	424	710	27·95	176
	Eyton Hall	G. H. Evans, Esq.	5	0	6	300	743	29·27	140
	2.—*SEVERN—Right Bank Tributaries.* 155 *sq. mi.*								
D	Much Marcle (The Mount)	Miss A. M. Charles	5	0	8	240	673	26·49	162
D†	Ledbury (Orchardleigh)	Miles A. Wood, Esq.	5	3	6	180	606	23·85	152
D†	,, (Underdown)	S. H. Bickham, Esq.	5	1	0	307	672	26·47	162
†	,, (,,)	M ,, ,, ,,	5	1	0	306	654	25·76	..
	,, (Putley Court)	J. Riley, Esq.	5	1	0	290	747	29·40	149
D	,, (WellingtonHeathVic.)	Rev.F.S. Stooke-Vaughan	5	1	2	505	625	24·62	175
D	Old Colwall	T. W. Binyon, Esq.	5	0	6	400	651	25·64	175
	Cradley (Mill Bank)	Lt.-Col. E. H. Thurlow	5	0	10	320	725	28·55	..
D	Leintwardine	Mrs. Charnock	5	1	6	430	799	31·44	195
	SHROPSHIRE. (Area, 1343 sq. mi.)								
	1.—*MERSEY—Weaver.* 27 *sq. mi.*								
	2.—*DEE.* 30 *sq mi.*								
D	Whitchurch (Fenns Bank)	M. W. Sowden, Esq.,C.E.	8	1	0	271	665	26·17	165
	Sodylt Hall	W. H. Horsfall, Esq.	5	1	0	267	746	29·36	163
	3.—*SEVERN—Right Bank Tributaries.* 722 *sq. mi.*								
D†	Ashford House	W. Downes Hall, Esq.	5	0	5	315	841	33·10	175
D	Bromfield (Oakley Park)	Mr. J. R. Francis	5	1	0	300	779	30·68	184
D	,, (Warwick House)	F. Brayshaw, Esq.	5	1	0	320	777	30·59	194
D	Bitterley Rectory	Rev. Preb. J. R. Burton	5	1	3	509	771	30·34	213
	Clun Forest (Bettws-y-crwyn)	Irving Watson, Esq.	5	2	6	1400	956	37·65	*182*
D	Craven Arms (Newington Ho.)	R. E. Serjeantson, Esq.	8	1	6	406	606	23·87	159
D†	Wistanstow Rectory	Rev.W.M.D.LaTouche	8	1	0	480	620	24·43	158
D	Lydbury North (The Lodge)	Richard Parry, Esq.	5	1	0	662	707	27·85	153
	Clun Forest (Cwm Ffrydd)	Sydney Wilson, Esq.	5	1	0	1155	842	33·17	..
D	Munslow Rectory	late Miss Joan Powell	5	1	3	475	714	28·10	176
D	Bishops Castle (Castle Street)	E. Griffiths, Esq.	5	2	0	720	693	27·27	171
D	,, ,, Vicarage	Rev. C. E. Warner	5	1	6	596	732	28·84	212
	,, ,, (MoreRectory)	Rev. Ridley Relton	6	0	11	600	686	27·00	..
D	Church Stretton(Sewage Works)	E. J. Marsh, Esq.	5	1	0	582	868	34·19	198
D	,, ,, (West Leigh)	H. Constantine, Esq.	5	0	8	700	840	33·08	187
D	Bridgnorth (Cantreyn)	W. Bayliss, Esq.	5	3	0	290	669	26·36	168
D	,, (,,)	,, ,, ,,	5	0	3	287	715	28·16	168
D	,, (Aldenham Park)	Mr. T. Canning	5	3	9	430	661	26·01	151
D	Church Preen (Preen Manor)	Mr. J. Hopkins	5	1	0	700	800	31·48	176
	ChurchStretton (Wolstaston)	Mrs. E. D. Carr	5	1	5	800	739	29·11	..
D	Much Wenlock (Willey Park)	Lord Forester	5	3	0	492	717	28·23	185
	Dorrington (Netley Hall)	Miss Hope-Edwardes	5	1	7	351	731	28·79	215
†	Shrewsbury (OrdnanceSur.Off.)	Col.H.L.Jessop,*per* M.O.	8	1	0	191	648	25·51	177
D†	,, (The Abbey House)	MissF.H.RouseBoughton	8	1	3	181	673	26·48	183
D	,, (Highfield)	T. M. Howells, Esq.	5	4	6	250	650	25·60	174
	4.—*SEVERN—Left Bank Tributaries.* 564 *sq. mi.*								
	Bridgnorth (Coton Hall)	Lt.-Col.E.M.Wakeman	5	1	6	460	687	27·04	174
D	Worfield (School House)	Frank Turner, Esq.	5	1	0	140	685	26·97	182
D	Shifnal (Hatton Grange)	Mr. G. Risebrow	5	4	4	262	718	28·27	204
D	,, (National Schools)	F. W. Haswell, Esq.	5	1	5	279	708	27·87	174
	The Wrekin Reservoir	G. Riley, Esq., C.E.	8	1	6	490	594	23·38?	..

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Height Above Sea Level			
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	SHROPSHIRE—(*con.*)								
	4.—*SEVERN—Left Bank Tributaries*—(*con.*)								
D	**Shrewsbury** (Sedgeford House)	R. C. Sikes, Esq., C.E.	5	1	0	169	637	25·08	188
D	,, (Roden)	J. W. Nowell, Esq.	8	1	3	208	609	23·98	144
D	,, (Fitz Rectory)	Rev. W. Brewster	5	1	2	238	730	28·73	188
D	Newport (Aston Hall)	Col. R. Leeke	5	0	11	280	753	29·65	178
D	,, (Agricultural College)	P. Hedworth Foulkes, Esq.	5	1	0	220	699	27·53	155
D	,, (Chetwynd Park)	Mrs. Burton Borough	5	1	0	240	784	30·88	183
D	,, (,, Gardens)	Mr. N. Sherwood	5	1	0	250	773	30·45	192
D	**Cheswardine** (Knighton Res.)	G. R. Jebb, Esq., C.E.	5	1	0	351	720	28·36	173
D	**Oswestry** (The Mount Res.)	G. W. Lacey, Esq., C.E.	5	1	0	698	802	31·59	213
D	,, (Council School)	E. Compton, Esq.	5	1	0	450	838	33·01	184
D	,, (Park Hall Camp)	Lt.-J. J. Lalor	5	1	0	400	778	30·64	189
D	**Ellesmere**	G. R. Jebb, Esq., C.E.	8	1	0	308	751	29·55	178
D	,, (The Grange)	Mrs. Ashton	5	0	10	340	682	26·87	143
	STAFFORDSHIRE. (Area, 1165 sq. mi.)								
	1.—*MERSEY—Weaver.* 50 *sq. mi.*								
D	**Biddulph Grange**	Robert Heath, Esq.	5	0	7	525	889	35·01	203
	2.—*SEVERN—Left Bank Tributaries.* 160 *sq. mi.*								
D	**Dudley** (Shavers End)	F. J. Dixon, Esq., C.E.	5	1	0	744	685	26·97	174
†	**Wolverhampton** (Town Hall)	G. Green, Esq., C.E.	5	15	6	481	733	28·85	177
†	,, (West Park)	,, ,, ,,	5	1	4	432	731	28·77	177
D	**Patshull Park**	The Earl of Dartmouth	8	1	3	273	766	30·16	159
D	**Weston Park** [Shifnal]	Julius White, Esq.	5	1	6	400	703	27·67	178
D	**Norbury Junction**	G. R. Jebb, Esq., C.E.	8	1	0	332	699	27·53	168
D	**Loynton Hall**	Col. S. T. H. Burne	5	0	10	390	726	28·58	147
D	**Market Drayton** (Old Springs)	F. E. Harding, Esq.	5	1	0	423	711	28·00	188
	Maer Hall Gardens	Mrs. F. J. Harrison	8	1	6	390	764	30·07	152
	3.—*TRENT—Right Bank Tributaries.* 512 *sq. mi.*								
D	**West** Bromwich	(R) A.D. Greatorex, Esq. C.E.	8	1	7	546	721	28·39	172
D	**Wednesbury** (Ocker Hill)	A. W. Willet, Esq. C.E.	5	0	8	474	700	27·55	190
D	**Walsall** (Brockhurst Sew. Farm	J. Taylor, Esq.	8	0	11	376	735	28·92	193
D	,, (Wednesbury Sew'ge Wks)	T. Wicks, Esq.	5	2	8	381	688	27·08	179
D	**Bilston** (The Lunt Outfall)	T. E. Fellows, Esq., C.E.	8	1	0	422	649	25·54	160
†	**Wolverhampton** (Graiseley)	E.E.W. Berrington, Esq.	6	0	9	506	764	30·09	180
D	**Bloxwich** (Sneyd Reservoir)	A. W. Willet, Esq., C.E.	5	1	0	507	659	25·96	214
D	**Hammerwich** (Cannock Chase Rs)	,, ,, ,,	5	1	0	475	660	26·00	198
D	**Brewood** (Belvide Reservoir)	G. R. Jebb, Esq., C.E.	5	1	0	367	644	25·37	176
D	**Lichfield** (St. John Street)	Dr. F. M. Rowland	5	0	10	269	675	26·58	186
	,, (Maple Hayes)	late A.O. Worthington Esq	5	0	11	380	633	24·93	..
D	**Penkridge** (Rodbaston)	G. E. Ward, Esq.	5	0	9	324	704	27·71	165
D	**Hednesford** (Scout House)	F. J. Dixon, Esq., C.E.	5	1	0	750	497	19·55?	151
D	**Milford** Waterworks	W. Plant, Esq. C.E.	5	1	0	246	686	27·00	165
	Shugborough	The Earl of Lichfield	5	1	0	260	718	28·27	187
D	**Stafford** (Rising Brook)	W Fred. Wright, Esq.	5	1	0	273	692	27·25	177
D	,, (Corporation Depôt)	W. Plant, Esq., C.E.	5	1	6	249	735	28·95	174
	,, (West Bank, Doxey)	M Leslie Wilson, Esq.	5	3	0	280	689	27·14	..
	Little Ingestre	Major Cecil Gardner	8	1	6	..	685	26·96	161
	Ingestre Park (Birch Hall)	M H. H. Goddard, Esq.	5	1	8	320	644	25·35	..
D	**Eccleshall** (Johnson Hall)	Major W. Moat	5	1	1	400	748	29·45	183

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Height Above Sea Level			
STAFFORDSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
3.—*TRENT—Right Bank Tributaries* (*con.*)								
Stone (Meece House)	E. J. W. Wood, Esq.	5	1	6	331	771	30·35	156
Standon (Hatton W.W.)	R. C. Frain, Esq., C.E.	5	1	8	355	738	29·07	161
4.—*TRENT—Left Bank Tributaries.* 193 *sq. mi.*								
D Burton (Hoar Cross)	F. W. Lycett, Esq.	8	1	0	400	762	30·00	167
,, (Rangemore)	Mr. H. Barson	5	5	6	424	513	20·21?	.
D ,, (Shobnall)	Messrs. Bass & Co.,Ltd.	5	5	6	156	618	24·32	166
D Stone (Alleyne's Grammar Sch.)	H. Malcolm Fraser, Esq	5	0	8	415	891	35·06	181
D Longton (The Meir)	R. C Frain, Esq., C.E.	5	1	0	618	805	31·68	187
,, High School	H. O. Smith, Esq.	5	0	8	500	679	26·75	..
5.—*TRENT—Dove.* 250 *sq. mi.*								
D Uttoxeter (Greenfields)	W. Ellaway Smith, Esq.	5	1	0	387	750	29·51	177
D Tean (Oak Hill)	VincentH.Jackson,Esq.	5	2	0	590	834	32·83	179
D ,, (The Heath House)	Lt.-Col. B. H. Philips	5	0	6	647	853	33·59	172
D Oakamoor (Woodbank)	M. A. Bolton, Esq.	5	1	6	550	851	33·52	178
D Mayfield House [Ashbourne]	Graham C. Lawson,Esq.	8	1	0	374	831	32·70	188
D ,, ,, [,,]	,, ,, ,,	8	1	0	374	838	33·00	190
D ,, (Doveside)	Mr. T. Bridge	8	1	0	421	787	31·00	183
D Leek (Wall Grange)	R. C. Frain, Esq., C.E.	5	1	0	458	858	33·80	183
D ,, (Hillesdon)	J. Wilson, Esq.	5	1	0	750	939	36·97	200
D ,, (Haregate)	Mr. G. Sweetmore	5	0	9	680	934	36·79	189
WORCESTERSHIRE. (Area, 717 sq. mi.)								
1.—*SEVERN—Right Bank Tributaries.* 231 *sq. mi.*								
D Redmarley (Haselden)	Miss F. L. Newbury	5	0	5	280	625	24·61	147
Upton-on-Severn(WillowBank)	J. Selwyn Cowley, Esq.	5	1	3	42	708	27·86	175
D ,, ,, ,, (The Eades)	Lt.-Col. E. W. Tennant	5	0	9	100	712	28·02	193
D Malvern (British Camp Res.)	W.OsborneThorpEsqC.E.	5	0	11	677	672	26·44	172
D† ,, (Church Street)	,, ,, ,,	5	1	0	350	726	28·58	163
D† ,, (Belle Vue House)	A. Mander, Esq.	5	4	0	520	740	29·13	173
D ,, (High School)	E. W Harris, Esq.	5	1	0	377	699	27·54	167
,, (Clarence Road)	S. Bottomley, Esq.	5	1	0	300	704	27·73	*188*
D† ,, (Hornyold Road)	Rev. T. Wolseley Lewis	5	1	0	492	678	26·69	156
D ,, (Madresfield Court)	Mr. W. Crump	8	2	6	125	643	25·32	153
D Knightwick Sanatorium	H. Gordon Smith, Esq.	5	1	0	300	633	24·94	151
D†Worcester (Diglis Lock)	E. J. Bradley, Esq.	5	1	0	49	562	22·13	203
D ,, (Bromwich House)	Rev. Manley Power	5	1	3	200	597	23·51	158
D†Martley Rectory	Rev. J. F. Hastings	5	1	0	220	676	26·61	171
Ombersley (Holt Lock)	E. J. Bradley, Esq.	5	1	1	55	602	23·68	..
D Shelsley Grange	Lady Hughes	5	1	0	270	639	25·16	..
D Tenbury (St. Michael's)	Miss Hewitt	5	0	8	329	752	29·62	167
D† ,, (,, Roseland Cott.)	Frederick Lowe, Esq.	5	1	0	314	741	29·17	176
D ,, (Teme Street)	,, ,, ,,	5	1	0	180	729	28·69	179
D ,, (Rochford Rectory)	Rev. J. Tomson	5	1	0	317	706	27·78	155
D Stockton-on-Teme (Eardiston)	Miss M. Wallace	5	0	8	200	658	25·89	158
D†Bewdley (Winterdyne)	Miss K. M. Sturt	5	1	0	100	612	24·10	170
,, (,,) ... M	,, ,, ,,	..	..		100	683	26·91	..
2.—*SEVERN—Left Bank Tributaries.* 194 *sq. mi.*								
D Kempsey (The Lodge)	Mrs. Isaac	5	0	9	80	591	23·26	156
D†Worcester (Belmont Road)	G. B. Wetherall, Esq.	5	2	0	180	588	23·15	158

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
WORCESTERSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
2.—*SEVERN—Left Bank Tributaries—(con.)*								
D†Worcester (Water Works) ...	T. Caink, Esq., C.E. ...	5	0	9	56	538	21·18	168
D ,, (Barbourne)........	B. Brotherton, Esq. ..	5	1	0	92	614	24·16	157
D ,, (Hindlip Hall)	Hon. C. S. K. Allsop ..	8	0	10	200	654	25·76	174
D ,, (Bevere Lock) ...	E. J. Bradley Esq.	5	1	1	52	624	24·56	156
,, (Hawford Lodge) ...	late F. Ames, Esq.	5	1	1	70	706	27·78	..
D Droitwich (Friar Street Depôt)	H. Hulse, Esq., C.E.....	12	4	0	98	663	26·10	174
D Bromsgrove (Tardebigge Res.)	F. A. Jones, Esq., C.E. .	5	4	6	455	774	30·49	161
D Barnt Green (Upwood)	Miss M. Gibbins........	5	0	9	650	701	27·59	179
D Stourport (Lincombe Lock)....	E. J. Bradley, Esq......	5	1	0	62	691	27·20	157
D†Kidderminster (Brinton Park) .	Mr. J. T. Cowderoy ...	5	1	0	160	661	26·04	167
D Pedmore (The Dene)	T. Grazebrook, Esq. ...	5	0	6	340	768	30·25	171
D Stourbridge	W. Fiddian, Esq.	8	0	11	210	716	28·18	187
D Netherton (Lodge Farm Res.)	A. W. Willett, Esq., C.E.	5	1	0	445	703	27·68	168
D Dudley (Borough Cemetery) .	J. Gammage, Esq., C.E.	5	1	3	591	706	27·81	184
,, (Trindle House)	S. StaffsDrainageComm.	8	1	0	575	869	34·20	..
3.—*SEVERN—Upper Avon.* 260 *sq. mi.*								
D Blockley (Upton Wold)	E. W. Arkell, Esq.	5	1	0	800	770	30·32	180
Shipston (Tidmington House) .	Miss Staunton	5	1	1	233	681	26·80	..
D†Evesham (Bengeworth)	Messrs. Ross Bros., Ltd.	5	1	0	128	612	24·11	145
D† ,, (Lansdowne)	R. Burlingham, Esq. ..	5	5	0	108	584	22·99	139
† ,, (Sewage Works)	H. S Harvey, Esq.	8	3	0	86	594	23·38	170
D ,, (Great Hampton)....	H. C. Boutflower, Esq...	5	1	0	150	570	22·46	164
D Shipston (Armscote)	W. L. Stanton, Esq. ...	5	1	1	241	606	23·85	175
D ,, (Talton)	Capt. G. Lainson Field..	8	1	0	160	520	20·48	164
† ,, (Cookhill Co. School) .	T. Barber, Esq.	5	1	0	400	639	25·17	155
D Redditch (Hewell Gardens) ...	Mr. J. J. Graham	5	1	0	469	809	31·86	213
D Alvechurch (Bordesley Hall) ..	A. H. Wiggin, Esq.	..	4	0	490	771	30·37	162
D ,, (High Croft)	D. B. Grubb, Esq.	5	1	0	580	816	32·12	179
D ,, (Fairfield)	D. McMichael, Esq.	5	1	0	400	796	31·34	159
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq., C.E. .	5	3	0	475	729	28·71	147
4.—*THAMES—Windrush & C* 10 *sq. mi.*								
5.—*TRENT—Right Bank Tributaries.* 22 *sq. mi.*								
D Halesowen (Frankley)	E. Antony Lees, Esq. ..	5	0	10	570	895	35·25	235
WARWICKSHIRE. (Area, 942 sq. mi.)								
1.—*SEVERN—Upper Avon.* 603 sq. mi.								
D Long Compton (Weston Park) .	H. A. Warriner, Esq. ...	8	3	0	510	639	25·14	152
Shipston (Honington Vicarage)	Rev. E. H. Boddington .	5	0	10	215	595	23·41	157
D Bidford (Moor Hall)	E. H. Cubberley, Esq. ..	5	1	0	125	586	23·06	163
D Kineton (Lodge Farm)	L. G. Slade, Esq........	8	1	2	403	566	22·30	146
D Wormleighton Hall	F. W Burnett, Esq. ...	5	4	9	515	613	24·14	158
†Stratford-on-Avon (Avonfield) .	G. W. Everard, Esq. ..	5	0	10	120	551	21·71	136
D ,, ,, ,, (High Street) ..	F. J. Spencer, Esq. ...	8	1	3	134	627	24·67	163
D† ,, ,, ,, (Shottery Hall) .	R. C. Carter, Esq.	5	0	8	140	598	23·53	138
Alcester (Ragley Hall)	Mr. C. Harding	5	1	0	270	612	24·08	..
Ashorne	Mr. G. T. Osborn	5	1	0	160	552	21·75	..
Snitterfield	F. W. Jones, Esq.	8	1	6	274	542	21·33	..
D Southam (Stockton House) ..	G. B. Blyth, Esq.	6	1	4	394	510	20·07	163
D Studley College	Miss E. H. Ekins.......	5	0	9	235	691	*27·21*	*181*
Warwick (Castle Gardens)	Mr. H. F. Smale	8	1	2	197	586	23·06	..

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	WARWICKSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*icnhes*	
	1.—*SEVERN—Upper Avon —(con.)*								
D	Leamington(PumpRoomGdns.)	H. GibbinsWard,Esq. ..	8	0	9	50	596	23·46	152
	Hatton House .... (R)	Mrs. J. P. Arkwright ...	10	4	11	370	589	23·17	163
	Willoughby Vicarage	Rev. H. Trethewy......	12	1	0	300	556	21·88	163
	Lapworth Croft	T. Birkett Barker, Esq.	5	2	0	410	700	27·55	158
D	Kenilworth (Gatehouse)	K. Rotherham, Esq ...	5	1	0	..	566	22·30	142
D	Rugby (Bilton Grange)	W.H.G.Southcomb,Esq..	5	1	0	400	519	20·42	165
	,, (Temple Observatory) .	BB Dickinson,Esq.*per*MO	5	1	1	383	534	21·03	149
D	Stretton-on-Dunsmore	Mrs. Lister-Kaye	5	0	9	245	560	22·04	139
	Ryton-on-Dunsmore(RytonHo.)	Charles Browett, Esq. .	5	1	2	260	587	23·11	..
	Kings Newnham	J. Brierly, Esq.	5	1	0	300	549	21·60	141
D	Coventry (City Hospital)	E. H. Snell, Esq., M.D. .	8	1	0	269	645	25·39	180
	,, (Kingswood)	R. B. Caldicott, Esq. ...	5	1	0	340	644	25·35	146
D	,, (Keresley Grange) ...	Miss H. Rotherham ...	5	0	10	413	696	27·41	216
	2.—*THAMES—Windrush & C.* 2 *sq. mi.*								
	3.—*THAMES—Cherwell.* 15 *sq. mi.*								
D	Farnborough	Miss C. A. Prater	5	1	0	515	708	27·86	180
	4.—*TRENT—Right Bank Tributaries.* 322 *sq. mi.*								
D	Hockley Heath (Packwood) ..	E. S. Fry, Esq.	5	1	2	400	616	24·26	156
D	Solihull (Marsh Cottage)	Lieut. E. P. Currall	5	1	0	420	611	24·05	155
D	Hampton-in-Arden(H'ptnMan.)	Mr. W. R. Cooper	8	0	7	345	691	27·22	204
D	Selly Oak (Bournville)	Messrs.CadburyBrosLtd.	5	1	0	434	812	31·95	185
D	,, ,, (South Hill)	W. Littleboy, Esq.	5	0	9	459	771	30·36	178
	Moseley (Prospect Road)	Rev. F. Oscar Lane ...	5	1	0	550	745	29·35	..
D	,, (Highfield Road)	J. Newland Brown, Esq.	8	1	9	480	795	31·29	154
D	,, ...	G. F. Lyndon, Esq. ...	5	1	0	506	798	*31·41*	*187*
D	Birmingham (Sparkhill)	D. H. Owen, Esq.	5	1	0	426	773	30·43	194
D	,, (Edgbaston)	A. Kelley, Esq.	8	1	0	515	704	27·71	184
D	,, (,, HighfieldRd.)	R. Priestman, Esq......	5	0	6	450	792	31·20	184
D	,, (,, Hagley Road)	H. E. Stilgoe, Esq.,C.E.	5	0	9	612	803	31·61	184
	,, (The Crescent) M	J. J. Gilbert, Esq.......	5	7	0	480	756	29·78	..
D	,, (HandsworthWood)	C. N. Milner, Esq.	5	8	0	434	704	27·71	*171*
D	,, (Gravelly Hill) ...	W. Ll. Mold, Esq.	5	3	0	470	732	28·84	152
D	,, (Erdington)	E. Antony Lees, Esq. ..	5	1	3	472	631	24·84	184
D	Minworth	BirminghamDrainageBd.	8	0	6	259	641	25·25	181
D	Nuneaton (Chilvers CotonVic.)	Rev. M. A. Dodds	5	0	10	283	692	27·24	160
D	Whitacre(BirminghamW W.) ..	E. Antony Lees, Esq. ..	5	1	5	269	617	24·31	192
D	Sutton Coldfield (The Park) ...	Mr. H. Harlond	5	1	0	371	700	27·55	174

DIVISION VII.—NORTH MIDLAND COUNTIES.

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	LEICESTERSHIRE. (Area, 824 sq. mi).								
	1.—*SEVERN—Upper Avon.* 41 *sq. mi.*								
D	Bitteswell School Gardens	M. Smith, Esq.	5	1	0	401	651	25·64	202
	2.—*WELLAND.* 96 *sq. mi.*								
D	Market Harborough (RoseHill)	G. O. Nicholson, Esq....	5	1	0	350	594	23·37	151
	East Langton Grange	J. W. Logan,Esq.,M.P. .	5	1	0	300	575	22·64	..
D	Kibworth Beauchamp	E. V. Phillips, Esq......	9	2	6	390	609	23·97	158
	Hallaton Hall	S. N. Bankart, Esq. ..	8	1	3	366	571	22·48	..

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	LEICESTERSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*WELLAND*—(*con.*)								
	HorningholdHouse *Snowdon g* M	Mr. B. Inchley	5	1	6	380	573	22·57	..
	,, ,, *Float g.* M	,, ,, ,,	6	2	0	380	521	20·50	..
	Withcote Hall Gardens	Mr. J. Woods	5	1	0	500	652	25·66	..
	3.—*WITHAM.* 7 *sq. mi.*								
	4.—*TRENT—Right Bank Tributaries.* 680 *sq. mi.*								
D	Wistow Hall Gardens	Col.Hon.T.F.Fremantle	5	1	0	307	626	24·63	157
D	Countesthorpe(WigstonSewFm.)	W. G. J.Clark, Esq., C.E.	8	0	9	257	566	22·29	178
D	Blaby (Whetstone Road)	G. F. Shoults, Esq.	5	0	6	239	600	23·61	167
D	Leicester (Stoneygate Road)	T.SpencerSmithson,Esq.	5	0	6	258	587	23·11	166
D	,, (De Montfort Street)	Dr. Bernard Stracey	5	1	0	240	599	23·57	170
D	,, (Town Hall Square)	E. G. Mawbey, Esq., C.E.	5	0	6	211	583	22·94	181
D†	,, (,, ,, ,,) (R)	,, ,, ,,	7	2	0	213	582	22·92	180
D	MarketBosworth(OsbastonHall)	Sir Thomas Cope, Bart.	8	1	0	393	722	28·41	201
D	Desford (Industrial School)	C. Oxley, Esq.	5	1	0	370	724	28·50	176
	Humberstone Asylum	S. C. Leak, Esq.	8	1	0	266	603	23·74	174
D	Leicester (Gilroes Cemetery)	E. G. Mawbey, Esq., C.E.	5	1	0	285	655	25·78	183
	,, (Anstey Pastures)	W. P. Viccars, Esq.	5	1	1	280	581	22·86	..
D	Thornton Reservoir	G. T. Edwards, Esq., C.E.	8	1	2	371	722	28·42	168
D	Cropstone (Bradgate Res.)	,, ,, ,,	8	1	0	246	695	27·35	174
D	Barkby Hall	Victor R. Pochin, Esq.	5	0	6	217	648	25·52	166
D	Swithland (The Brand)	G.T.Edwards,Esq.,C.E.	8	1	0	172	621	24·46	155
D	Ratcliffe-on-Wreake College	Rev. J. Cremonini	5	1	0	288	784	30·85	145
D	Ashby-de-la-Zouch(ColeOrtn.H.)	Mr. H. T. Wilson	5	2	0	540	764	30·10	172
D	Barrow-upon-Soar (Strangcliffe)	G. Fellows, Esq.	.		..	220	559	22·00	162
D	,, ,, ,, (The Mount)	Mrs. C. Stuart Thomson	5	1	6	..	591	23·28	162
D	Melton Mowbray	Gerald Walsh, Esq.	5	3	0	345	515	20·29	155
D	Charnwood For.(Blackbrk. Res)	A. H. Walker, Esq., C.E.	8	1	0	367	701	27·60	191
D	Loughborough(Nan PantanRes)	,, ,, ,,	8	1	0	269	696	27·39	184
	,, (The Widenings)	Adrian Young, Esq.	5	0	7	197	613	24·13	168
D	,, (Sewage Farm)	A. H. Walker, Esq., C.E.	8	1	0	134	600	23·61	142
D	Burton-on-the-Wolds(BurtonHl)	Lord Ernest St. Maur	5	1	0	270	639	25·15	174
D	Prestwold Hall	E. H. Packe, Esq.	8	1	0	209	608	23·95	167
D	Waltham-on-the-Wolds School	G. Higgens, Esq.	5	1	0	568	610	24·01	147
D	Croxton Kerrial	C. J. Prowse, Esq.	5	1	0	480	649	25·54	182
	Belvoir Castle Gardens	Mr. D. Gibson, *per* M.O.	8	1	0	260	563	22·18	170
	RUTLAND. (Area, 152 sq. mi.)								
	1.—*WELLAND.* 125 *sq. mi.*								
D	Uppingham (Ridlington)	N. W. Wortley, Esq.	5	4	7	527	576	22·67	165
	Oakham (Fritham House)	Mrs. Chapman	5	1	1	300	616	24·26	..
	Great Casterton Rectory	Rev. J. Scott Ramsay	8	1	0	126	534	21·02	..
	,, ,, (Walk Farm)	H. Goodyear, Esq.	5	1	8	330	541	21·31	..
	2.—*WITHAM.* 5 *sq. mi.*								
	3.—*TRENT—Right Bank Tributaries.* 22 *sq. mi.*								
	LINCOLNSHIRE. (Area, 2646 sq. mi.)								
	1.—*NENE.* 100 *sq. mi.*								
D	Tydd (North Level Sluice)	Mr. S. Fovargne	5	3	6	10	608	23·93	139
	2.—*WELLAND.* 341 *sq. mi.*								
	Stamford (St. George's Square)	T. Booth, Esq;	5	4	0	88	539	21·21	..

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	LINCOLNSHIRE—(*con.*)								
	2.—*WELLAND.*—(*con.*)								
D	Market Deeping (Wilsthorpe)	G. Nicholls, Esq.	8	3	10	55	490	19·30	137
	Holywell Hall	Col.C.BirchReynardson	5	0	6	190	662	26·05	145
D	Bourne (Council School)	J. Langsford, Esq.	5	1	0	23	568	22·35	136
D	,, (Guthram)	F. S. Robins, Esq., C.E.	8	1	6	19	413	16·25?	147
D	Spalding (Pode Hole)	H. Bain, Esq.	8	1	3	13	506	19·94	197
D	Dowsby (The Cottage)	Miss Burtt	5	1	5	14	535	21·08	148
	3.—*WITHAM & C.* 1085 *sq. mi.*								
	Stainby Rectory	Rev.W.L.de B.Thorold	4	0	9	496	577	22·72	..
	Stroxton Rectory	Rev. S. C. Wood	5	0	10	350	590	23·22	..
D	Little Ponton Rectory	Rev. P. R. Worsley	5	1	0	250	677	26·65	186
D	Denton Manor	SirC.G.E.Welby, Bt.,C.B.	5	3	0	310	575	22·63	195
D	Grantham (Saltersford)	H. Preston, Esq.	5	0	6	188	563	22·18	149
D	,, (Guildhall)	J. H. Drew, Esq., C.E.	5	17	0	206	521	20·51	147
D	,, (High Street)	Messrs.R. & W. Bird	5	1	0	202	594	23·40	138
D	Boston(Black Sluice, Skirbeck)	F. S. Robins, Esq., C.E.	8	1	3	11	547	21·52	176
D	,, (Sleaford Road)	J. Shaw, Esq.	5	1	2	9	548	21·59	159
D	,, (Grand Sluice)	J.H.Johnson,Esq.,C.E.	8	8	0	18	508	20·02	168
	,, (Bargate End)	A. O. Scrivener, Esq.	8	1	0	9	535	21·07	168
D	Carlton Scroop	Capt. J. H. W. Rennie	5	2	2	175	600	23·62	169
D	Sleaford(Kesteven CountyAsy.)	Dr. J. A. Ewan	5	0	9	100	502	19·75	159
	,, (Rauceby Hall)	Mrs. Willson, *per* M.O.	5	1	0	125	546	21·50	173
	Claypole Rectory	Rev. H. W. Bathurst	8	2	0	70	538	21·18	164
D	Fulbeck Hall	Col. W. V. R. Fane	5	0	8	180	553	21·78	213
D	Cranwell	Norman L.Silvester,Esq.	8	0	9	237	445	17·53?	163
	New Leake(LadeBankEngines)	J.H Johnson,Esq., C.E.	8	1	0	10	545	21·46	..
D	Carrington Grange	Mr. T. J. Ward	5	6	0	15	608	23·93	135
D	Digby Manor	R. A. S. Mackenzie, Esq.	5	1	0	47	525	20·68	165
	Wellingore	Miss A. S. Morley	5	1	0	..	522	20·56	153
	Navenby Rectory	Mr. J. Thompson	5	1	0	218	532	20·96	141
D	Carlton-le-Moorland	J. Brocklebank, Esq.	5	1	2	49	555	21·87	146
	Mareham-le-Fen	Mrs.G.L.Kime,*per*M.O.	5	3	0	11	655	25·73	154
	Revesby	J. Shaw, Esq.	5	2	0	135	679	26·75	..
D	Woodhall Spa (Galm House)	J. Collins, Esq.	5	1	6	72	593	23·33	176
D	Spilsby (Hagnaby Priory)	Miss Pocklington	8	1	8	47	768	30·22	174
D	Bardney Railway Station	A. Burridge, Esq.	8	7	6	25	450	17·71?	144
D	Bucknall	Mr. Joshua Bint	5	1	0	33	550	21·66	170
D	Horncastle	H. R. Maynard, Esq.	5	1	6	110	624	24·58	171
	Lincoln (Boultham Pump.Stn.)	C.Horobin, Esq., C.E.	5	1	0	19	556	21·88	..
	,, (Skellingthorpe Hall)	A.H.B.Coupland, Esq.	5	1	0	40	550	21·64	136
	,, (Station)	Great Central Rly. Co.*	9	3	6	26	510	20·07	..
D	,, (Sessions House)	Arthur Smith, Esq.	5	1	0	59	529	20·81	157
D	,, (D'Isney Place)	A.H.LeslieMelville,Esq.	4	1	0	215	561	22·10	160
D	,, (Cottesford Place)	F. A. Peacock, Esq.	9	0	9	220	557	21·93	164
	,, (Monks Tower)	Miss Allanby	5	1	6	100	562	22·13	..
D	Hackthorn Hall	E. W Cracroft, Esq.	5	4	6	105	573•	22·56	153
	Willingham-by-Stow	R. C. Bacon, Esq.	8	2	0	70	561	22·07	161
	Springthorpe Rectory	Rev. B. Davies	5	1	0	75	571	22·49	130
	4.—*GREAT EAU & C* 443 *sq. mi.*								
D	Wainfleet (Bridge House)	G. Booth Walker, Esq.	5	1	0	17	658	25·91	171

*Kept for the Canal Department of the Grand Central Railway Company Returns supplied by T. Chappell, Esq.

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	LINCOLNSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	4.—*GREAT EAU & C.*—(*con.*)								
	Skegness (Estate Offices)	R.H.Jenkins,Esq.*per*MO	8	1	0	13	550	21·65	163
D	East Keal Rectory	Rev. R. H. Simpson	5	0	7	180	564	22·21	184
D	Halton Holgate	G. Rattenbury. Esq.	5	1	0	89	645	25·38	167
D	Spilsby (Ashby Road)	J. Jarvis Rainey	5	1	0	160	635	25·00	158
D	Hagworthingham	Mr. R. Wright	5	1	1	252	774	30·48	161
	Harrington Hall	Mr. E. Burgess	5	0	4	163	696	27·42	..
	Alford (Finsbery Street)	Mr. E. Hodgson	5	1	0	35	522	20·56?	157
D	Mablethorpe (Trusthorpe Hall)	I. N. Woodiwiss, Esq.	8	1	3	10	636	25·04	172
D	Louth (Westgate)	Dr. F. Fawssett	5	0	9	120	654	25·76	170
D	Kirmond	C. Fieldsend, Esq.	5	1	2	309	666	26·23	193
D	Grainsby Hall	Mr. J. Butters	5	1	1	75	605	23·82	174
	5.—*HUMBER—Right Bank Tributaries.* 428 *sq. mi.*								
	Market Rasen	F. C. Burrell, Esq.	5	0	8	84	538	21·17	..
	,, ,,	Great Central Rly. Co.	9	3	6	100	495	19·50	144
	Brigg Station	,, ,, ,,	9	3	6	16	534	21·01	162
	,, (Grammar School)	H. E. Bryant, Esq.	5	1	0	32	543	21·38	..
D	,,	A. Atkinson, Esq., C.E.	8	1	2	11	634	24·98	173
D	Grimsby (Abbey Road)	W. J. Wood, Esq. C.E.	5	3	0	23	557	21·92	136
	,,	Great Central Rly. Co.	9	15	0	42	457	18·00	..
	Barnetby	,, ,, ,,	9	3	6	51	618	24·35	132
D	Brocklesby Park	Mr. F. C. Stainsby	5	2	0	108	658	25·92	175
D	Burton-on-Stather (Normanby)	A. G. Wilkes, Esq.	5	0	10	185	620	24·43	158
D	Thornton Curtis Vicarage	Rev. C. B. Goodacre	8	1	4	66	596	23·48	163
D	Horkstow	E. J. Turton, Esq.	5	0	10	75	571	22·50	141
	Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1	0	18	610	24·00	165
	New Holland	Great Central Rly. Co.	9	3	6	18	573	22·55	159
	6.—*TRENT—Right Bank Tributaries.* 172 *sq. mi.*								
	Woolsthorpe	A. Brown, Esq., C.E.	..	1	3	182	519	20·44	137
	Swinderby (Ling Moor)	Cecil H. Wray, Esq.	5	0	9	50	613	24·15	..
D	Lincoln (Doddington Hall)	Mrs. Jarvis	8	1	2	92	628	24·74	149
	Gate Burton Hall	J. D. Sandars, Esq.	5	2	0	97	528	20·79	..
	Gainsborough	Great Central Rly. Co.	9	..		76	497	19·56	135
D	Burton-on-StatherVicarage	Rev. Canon F.A.Jarvis	5	1	6	212	620	24·40	174
	7.—*TRENT—Left Bank Tributaries.* 77 *sq. mi.*								
	Wroot (S.Level Pump Station)	Mr. F. S. Trafford	10	4	0	13	450	17·72	..
D	Althorpe Rectory	Rev. Allan Ellison	5	1	0	6	596	23·47	167
	Crowle (N.Level Pump. Station)	Mr. H. G. Trafford	5	2	6	10	539	21·24	..
	Keadby	Great Central Rly. Co.	9	3	6	17	495	19·50	140
	,, (The Hollies)	*Yorkshire Post*	..	..		20	571	22·47	..
	NOTTINGHAMSHIRE. (Area, 843 sq. mi.) ..						.		
	1.—*WITHAM.* 10 *sq. mi.*								
	2.—*TRENT—Right Bank Tributaries.* 218 *sq. mi.*								
	Kingston(MidlandAgric.Coll.)	P.WBailey,Esq.,*per*M.O.	5	1	0	125	459	18·07	164
D	Plumtree(Normanton-on-Wolds)	T. A. Hill ,Esq.	8	1	0	170	510	20·09	184
D	Nottingham (WilfordHill Res.)	F. W. Davies, Esq.	8	0	11	296	520	20·49	186
	Cropwell Bishop(CropwellGrove)	H. Smith, Esq.	5	1	1	160	496	19·54	..
	Bingham (Whatton Manor)	Col. M. H. Hall	5	3	0	104	503	19·79	140
D	Newark Castle Gardens	Mr. W. York	5	0	8	63	490	19·29	141
D	NorthCollingham(MarkhamHo.)	The Misses Turton	5	1	0	38	562	22·11	175

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	NOTTINGHAMSHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*TRENT—Derwent.* 2 *sq. mi.*								
	4.—*TRENT—Erewash.* 42 *sq. mi.*								
	Beeston (West End)	A. Brown, Esq., C.E.	5	1	0	104	620	24·40	177
D	Nottingham (Strelley)	T. L. K. Edge, Esq.	8	1	0	396	611	24·07	192
D	,, (,, Hall)	,, ,, ,,	5	1	0	378	578	22·77	177
	,, (,, ,,) ..M	,, ,, ,,	5	1	0	379	579	22·80	..
D	Bulwell (Watnall Reservoir)	F. W. Davies, Esq.	8	0	11	472	657	25·86	211
D	Eastwood (Moorgreen Res.)	Great Northern Ry. Co.	5	6	0	301	611	24·05	197
	Annesley (Selston W.W.)	S. Maylan, Esq	5	1	0	475	549	21·63	147
	5.—*TRENT—Left Bank Tributaries.* 569 *sq. mi.*								
	Nottingham (Trent Lane) .. (R)	A. Brown, Esq., C.E.	8	0	10	85	534	21·04	170
D	,, (The Castle)	,, ,, ,,	8	1	2	192	554	21·81	203
	,, (,, ,,)	,, ,, ,,	8	76	0	268	497	19·57	161
D	,, (Carisbrooke House)	W. Bradshaw, Esq.	5	2	0	247	587	23·11	163
	,, (Stoke Bardolph)	A. Brown, Esq., C.E.	8	1	0	66	558	21·95	160
D	,, (Mapperley Hill)	E. Powell, Esq.	8	1	0	400	549	21·61	149
	Bagthorpe (Isolation Hospital)	P. Boobbyer, Esq., M.D.	8	2	0	189	552	21·75	167
D	Nottingham (Basford W.W.)	F. W. Davies, Esq.	8	1	0	169	569	22·42	155
D	Burton Joyce Water Works	,, ,, ,,	8	0	9	64	669	26·35	170
	Bulcote (Corporation Farm)	A. Brown, Esq., C.E.	10	1	3	65	514	20·22	..
	Lowdham (Chilwell Nurseries)	Mr. J. D. Pearson	5	1	7	90	513	20·21	..
D	Bulwell (Bestwood W. W.)	F. W. Davies, Esq.	8	1	2	317	551	21·68	167
D	Daybrook (Red Hill Reservoir)	,, ,, ,,	8	0	11	407	607	23·90	202
D	,, (Ramsdale Hill Res.)	,, ,, ,,	8	0	10	495	615	24·22	198
	Bulwell Hall Park	A.Brown,Esq., C.E.	8	1	0	252	609	23·96	174
D	Hucknall (Forge Mills)	J. D. Walker, Esq.	5	4	3	200	593	22·33	145
D	Papplewick (Water Works)	F. W. Davies, Esq.	8	0	10	317	622	24·49	190
D	Southwell (Elmfield)	Dr. H. Handford	5	1	0	132	529	20·84	155
	,, (,,) ...... M	,, ,,	5	1	0	132	524	20·62	..
D	,, (Westgate)	late Rev. Can. J.Singleton	5	1	0	127	540	21·25	148
D†	Farnsfield	Dr. C. Wills	5	1	0	210	614	24·17	172
†	Sutton-in-Ashfield W.W.	Messrs.G. &. F.W.Hodson	5	1	1	462	584	22·98	..
D	,, ,, ,, Sewage Wks)	F. J. Grierson, Esq.	5	1	0	453	608	23·95	171
D†	Mansfield (W.W.Rainworth)	Mssrs.G.&.F.W.Hodson	5	1	0	360	646	25·45	153
D	,, (High Oakham)	P. J. Shacklock, Esq.	5	1	0	425	701	27·62	185
D†	,, (West Bank)	W. Pickard, Esq.	8	1	0	405	594	23·37	171
	Clipstone Water Works	Messrs. G.&.F.W.Hodson	5	1	0	236	565	22·25	..
D	Ollerton (Boughton W.W.)	F. W. Davies, Esq.	8	0	7	141	548	21·57	161
D	,, (Thoresby Gardens)	Mr. A. Simmons	8	0	9	125	615	24·22	142
	Clumber Gardens	A. E. Elliott, Esq.	5	4	0	170	584	23·00	..
	Elkesley Pumping Station	C. Horobin, Esq., C.E.	5	1	0	118	519	20·43	154
D	Rampton Manor	Sir C. E. Ellis, K.C.B.	6	1	3	26	531	20·92	159
D	Worksop (Carlton Road)	J. Edeson, Esq.	5	1	1	154	519	20·45	161
	,,	Great Central Rly. Co.	9	3	6	127	487	19·18	..
D	,, (Osberton Gardens)	Mr. E. Hill	5	3	6	70	517	20·35	149
	Retford	Great Central Rly. Co.	9	3	6	52	451	17·77	147
D	,, (Grammar School)	G. R. Davies, Esq.	8	0	11	53	496	19·51	166
D	,, (Morton Hall)	W. H. Mason, Esq.	5	1	0	140	519	20·43	142
D	,, (SewageDisposalWks.)	J. D. Kennedy, Esq.	5	1	0	74	550	21·65	183
D	Sturton-le-Steeple	S. Ingham, Esq.	5	1	6	40	476	18·76	139
	Worksop (Gateford Hill)	Mr. F. E. Chambers	5	1	2	190	470	18·52	..
D	,, (Wigthorpe Hill)	R. C. Ramsden, Esq.	5	1	0	100	518	20·39	145

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
NOTTINGHAMSHIRE—(*con.*)								
5.—*TRENT—Left Bank Tributaries*—(*con.*)								
D†Workshop (Hodsock Priory)	Lt.-Col. H. Mellish, C.B.	8	1	0	56	514	20·23	170
† ,, (,, ,,) M	,, ,, ,,	5	1	0	56	507	19·95	..
† ,, (,, ,,)..(R)	,, ,, ,,	11	1	6	56	504	19·84	168
D Scrooby	Mr. J. Mallender	5	1	0	44	489	19·26	175
The Gardens [Bawtry Hall]	Mr. F. E. Hogbin	5	4	0	31	452	17·79	..
Stockwith	Great Central Rly. Co.	9	3	6	21	498	19·60	155
D Bawtry (Hesley Hall)	B. I. Whitaker, Esq.	8	0	11	61	486	19·14	166
6—*OUSE—Don.* 2 *sq. mi.*								
DERBYSHIRE. (Area, 1029 sq. mi.)								
1.—*MERSEY, UPPER.* 93 *sq. mi.*								
Comb's Reservoir	Great Central Rly. Co.	9	3	6	710	811	31·94	192
Chapel-en-le-Frith	,, ,, ,,	9	3	6	965	730	28·74	194
D Whaley Bridge (Mosley Hall)	S. Arrowsmith, Esq.	9	1	2	760	953	37·51	214
D ,, ,, (,, ,,)	,, ,, ,,	5	1	0	760	971	38·22	216
Mellor (Manor House)	W. Jowett, Esq.	5	1	0	544	849	33·41	..
D Glossop W. W. (Swineshaw)	Mr. J. Garner	12	3	0	733	1069	42·08	213
Woodhead Station	Great Central Rly. Co.	9	3	6	878	1089	42·87	213
2.—*MERSEY—Weaver.* 2 *sq. mi.*								
3.—*TRENT. Right Bank Tributaries.* 68 *sq. mi.*								
D Repton (The Croft)	H. C. Hayward, Esq.	5	1	4	170	639	25·17	169
D Stanton-by-Bridge W.W.	F. Worrall, Esq., C.E.	8	1	2	144	609	23·96	148
4.—*TRENT—Dove.* 156 *sq. mi.*								
D Snelston Hall	H. Stanton, Esq.	5	0	9	490	831	32·70	172
D Ashbourne Water Works	Mr. A. R. Twigg	5	1	0	582	814	32·05	191
5.—*TRENT—Left Bank Tributaries.* 84 *sq. mi.*								
Findern (The Longlands)	Mrs. B. W. Spilsbury	5	0	9	186	605	23·81	148
Etwall (Blakeley Lodge)	Mr. R. Giles	5	1	0	190	586	23·05	..
D ,, (Sewage Farm)	Mr. B. Hydes	5	13	0	201	572	22·51	150
D Mickleover (County Asylum)	M. L. Rowan, Esq., M.D.	5	3	0	300	605	23·84	160
D ,, Manor	Mr. J. Campbell	5	2	0	280	668	26·31	180
Littleover (The Knoll)	W. B. Robotham, Esq.	5	1	0	315	644	25·34	186
,, (Old Hall)	E. McInnes, Esq.	5	2	6	346	690	27·17	187
6.—*TRENT—Derwent.* 428 *sq. mi.*								
D Spondon (Derby Sewage Wks.)	J. Ward, Esq., C.E.	5	1	3	135	614	24·19	196
D ,, (The Homestead)	Miss D. Fowler	5	2	6	250	547	21·55	161
D Derby (Wild Street)	Messrs. J. Davis & Son	5	1	0	174	642	25·27	178
D† ,, (Midland Railway)	J. Sayers, Esq.	5	1	5	156	625	24·59	161
D ,, (Royal Infirmary)	E. Forster, Esq.	5	1	0	195	679	26·73	211
D ,, (The Arboretum)	J. Ward, Esq., C.E.	8	1	0	196	689	27·13	176
Kirk Langley (Langley Hall)	G. W. Peach, Esq.	5	1	10	396	715	28·17	183
D Breadsall Lodge	Col. W. B. Woodforde	5	1	3	280	660	25·97	168
,, Priory	E. S. Haslam, Esq.	5	1	6	380	616	24·26	..
D Duffield (Castle Hill House)	Messrs. J. Davis & Son	..		..	..	670	26·37	163
D ,, (Kirkstyles)	WBWorthingtonEsqC.E.	5	1	0	235	618	24·32	162
D Belper (Fernslope)	F. J. Jackson, Esq.	5	1	6	540	752	29·60	176
,, (Herbert Strutt School)	W.W.TunnicliffeEsq*pr*MO	8	1	0	222	756	29·77	180
D ,, (Quarry Bank)	J. Hunter, Esq., C.E.	5	0	8	281	725	28·55	179
Ambergate Reservoir	S. B. Winser, Esq., C.E.	5	1	0	700	687	27·05	155
D Wirksworth (Manor House)	T. Atkinson, Esq.	5	1	0	498	933	36·72	202

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	DERBYSHIRE—(*con.*)								
	6.—*TRENT*—*Derwent*—(*con.*)								
D	Alderwasley Parsonage	Rev. C. E. B. Deacon	5	1	0	540	856	33·70	190
	Matlock Bath (Lower Tower)	Miss E. Chadwick	5	1	1	500	794	31·26	..
D	„ (The Gables)	Mrs. R. Wildgoose	5	1	0	450	804	31·66	198
D	Darley Dale (Whitworth Inst.)	E. Evans, Esq.	5	1	6	361	738	29·05	159
D	„ Hall	A. Clay, Esq.	5	1	0	400	788	31·03	194
D	Clay Cross (Press Reservoir)	G. Frith, Esq., C.E.	8	1	0	810	644	25·37	153
D	Bakewell (Catcliff)	Dr. T. Fentem	12	3	1	411	812	31·97	171
D†	Chatsworth Gardens	Mr. F. Jennings	5	1	0	436	741	29·18	199
D	Buxton (Portobello Bar)	F. Langley, Esq., C.E.	8	1	0	1600	1319	51·92	247
D	„ (Stanley Moor)	„ „ „	8	1	0	1340	1240	48·84	247
D	„ (Burbage Edge)	„ „ „	8	1	0	1400	1264	49·75	245
D	„ (Devonshire Hospital)	W. Pilkington, Esq.	5	1	0	988	1071	42·17	220
D†	Holmesfield (Barbrook Res.)	Gilbert Frith, Esq., C.E.	8	1	0	1080	683	26·88	212
D†	Eyam (The Rectory)	Rev. F. L. Shaw	5	1	0	856	889	35·00	190
	„ (The School)	R. Owen, Esq.	5	1	6	856	1031	40·60	191
D	Froggatt Edge (Moorlands)	Rev. W. Vale Bagshawe	5	1	0	530	829	32·63	193
D†	Grindleford (Grouse Inn) No. 58	S. B. Winser, Esq., C.E.	5	1	0	990	807	31·76	190
D	Hope (Killhill Bridge) No. 56	„ „ „	5	1	0	555	970	38·18	174
D	Bamford (Engineer's Office) 60	„ „ „	8	2	0	510	841	33·11	226
	„ (YorkshireBr.Weir) 59	„ „ „	5	1	0	540	843	33·18	200
	„ Filters No. 70	„ „ „	8	1	0	656	890	35·05	229
	Derwent Vicarage No. 67	„ „ „	8	1	0	675	1030	40·54	210
	„ Dam No. 26	„ „ „	8	1	0	790	974	38·34	212
	„ (LockerbrookPlant.) 68	„ „ „	5	1	0	755	1133	44·62	..
	WoodlandDale(Woodlands,S.)48	„ „ „	5	1	0	1044	780	30·73	..
	„ „ („ N.) 47	„ „ „	5	1	0	1063	811	31·93	..
	Hayfield (Ashop Head) No. 43	„ „ „	5	1	0	1650	909	35·80	..
	Derwent Dale (Shire Owlers) 69	„ „ „	5	1	0	825	951	37·45	..
	„ „ (Birchinlee)No.23	„ „ „	8	1	0	870	1191	46·90	220
	Westend Bridge No. 66	„ „ „	5	1	0	878	1223	48·15	..
	Lady Clough Moor No. 41	„ „ „	5	1	0	1720	1011	39·80	..
	ColdharbourMoor(Summit) „ 39	„ „ „	5	1	0	1670	1065	41·94	..
	Derwent Dale (HowdenDam) 17	„ „ „	8	1	0	829	1169	46·01	221
	„ „ (Ridge Farm) 13	„ „ „	8	1	0	1175	1005	39·58	.
	Alport Moor(GetheringClough40	„ „ „	5	1	0	1640	933	36·75	..
	WestendMoor(BlacklowCote) 15	„ „ „	5	1	0	970	1233	48·55	..
	„ „ No. 10	„ „ „	5	1	0	1560	1058	41·65	..
	Alport Moor No. 38	„ „ „	5	1	0	1790	1011	39·80	..
	Broadhead Clough No. 63	„ „ „	5	1	0	1005	1244	48·98	..
	Derwent Dale(SlipperyStones 62	„ „ „	5	1	0	908	1155	45·46	..
	Ridgewalk Moor No. 9	„ „ „	5	1	0	1650	1027	40·45	..
	7.—*TRENT*—*Erewash.* 50 *sq. mi.*								
D	Trowell (IlkestonSew.Wks.) (R)	H. J. Kilford, Esq., C.E.	6	1	11	134	502	19·77	150
D	Codnor (Cross Hill)	A. F. Pine, Esq.	5	1	0	372	680	26·76	162
D	„ Park	Midland Railway Co.	5	1	0	243	706	27·80	197
	8.—*OUSE*—*Don.* 148 *sq. mi.*								
	Hardwick Hall	Mr. E. Wilson	8	2	6	594	666	26·24	150
D	Grassmoor Colliery	Mr. J. Norman	5	19	10	370	399	15·70	148
D†	Chesterfield (Gas Works)	Chesterfield Water Board	5	1	0	279	480	18·88	145
	„	Great Central Rly.Co.	9	3	6	250	535	21·08	150

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	DERBYSHIRE—(*con.*)								
	8.—*OUSE—Don*—(*con.*)								
D	Chesterfield (Sewage Works)	Mr. W. Tomlinson	5	2	0	222	498	19·62	155
D†	,, (Linacre Res.)	Chesterfield Water Board	8	1	0	460	697	27·44	179
D†	,, (,, ,,)	,, ,, ,,	5	1	0	490	628	24·73	179
	,, (Tapton Grove)	Mr. W. R. Bloxham	5	4	3	400	534	21·04	..
D	Totley Hall	W. A. Milner, Esq.	5	1	0	700	800	31·51	202
D	Eckington (Mosbrough C.E.Sch.)	W. H. Holmes, Esq.	5	1	0	330	707	27·83	178
	Killamarsh (Norwood)	Great Central Rly. Co.	9	3	6	226	546	21·50	173

DIVISION VIII.—NORTH WESTERN COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	CHESHIRE. (Area, 1027 sq. mi.)								
	1.—*MERSEY, UPPER.* 269 *sq. mi.*								
†	Macclesfield (West Park)	Mr. S. H. Moss, *per* M.O.	5	1	0	501	860	33·88	186
	,,	Great Central Rly Co.	9	3	6	539	679	26·74	197
D†	,, (Swanscoe Park)	T. C. Horsfall, Esq.	5	1	0	676	841	33·11	216
D	Bollington Cross (Turner Heath)	Mr. C. Brown	5	1	6	500	843	33·18	172
	Wilmslow (Parksyde)	J. H. Neave, Esq.	8	1	0	255	756	29·78	..
D	,, (Dean Row)	J. H. Cooke, Esq.	5	1	0	292	785	30·90	205
D	Kettleshulme (Glebe House)	A. Y. Barker, Esq.	5	1	6	850	886	34·87	187
	Whaley Bridge	Great Central Rly. Co.	9	3	6	602	967	38·07	215
D	Poynton (Waterloo)	C. F. Butterworth, Esq.	5	1	0	397	773	30·42	193
D	Disley (Lyme Park)	T. Molyneux, Esq.	5	1	0	674	699	27·53	189
D	,, (,, ,,)	,, ,, ,,	5	1	0	720	631	24·86	189
	Bramhall (Bramhall Lane)	S. O'Dwyer, Esq.	5	1	3	250	792	31·18	181
D	Runcorn (Weston Point)	Col. J. A. Saner, C.E.	8	1	4	17	764	30·08	186
D	Thelwall (The Clough)	E. W. Reynolds, Esq.	5	1	0	95	788	31·02	184
	,, (,, ,,) M	,, ,, ,,	5	1	0	95	789	31·06	..
	Altrincham (Norman's Place)	Miss G. A. Griffiths	5	8	0	150	966	38·05	..
	,, (Barrington House)	C. E. Newton, Esq., C.E.	8	2	6	103	819	32·24	..
	Cheadle (Adswood)	R. W. Wright, Esq.	5	0	6	186	763	30·02	..
D	Northenden (Wythenshawe Hall)	T. E. Tatton, Esq.	5	1	0	114	729	28·70	196
	,, (,, ,,) M	,, ,, ,,	8	1	0	114	726	28·59	..
	Marple Top Lock	Great Central Rly. Co.	9	3	6	523	777	30·58	175
	Godley Reservoir	G. H. Hill, Esq., C.E.	12	2	0	500	870	34·27	..
	Newton	Great Central Rly. Co.	9	3	6	396	802	31·56	194
	Mottram Station	,, ,, ,,	9	3	6	452	839	33·05	167
D	Broadbottom (Harewood Lodge)	Col. Sidebottom	5	1	0	440	851	33·52	170
D	Dukinfield (Higher Reservoir)	G. H. Raddin, Esq., C.E.	5	1	6	495	760	29·92	190
D	,, (Lower ,,)	,, ,, ,,	5	1	0	435	800	31·50	190
	Arnfield Reservoir	G. H. Hill, Esq., C.E.	12	2	6	550	926	36·44	..
	Rhodes Wood Reservoir	,, ,, ,,	12	1	0	520	1059	41·68	..
	Torrside Reservoir	,, ,, ,,	12	1	6	680	1144	45·05	..
D	Stalybridge (Market Ground Yd.)	G. H. Raddin, Esq., C.E.	5	1	0	373	953	37·54	190
D	,, (Brushes Filter Ho.)	,, ,, ,,	8	1	0	615	960	37·80	192
D	,, (,, ,, ,,)(R)	,, ,, ,,	6	3	0	615	895	35·25	191
	Swineshaw Moor (Lees Hill)	,, ,, ,,	5	1	0	1168	912	35·92	..
	Woodhead Reservoir	G. H. Hill, Esq., C.E.	12	0	10	660	1153	45·38	..

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	CHESHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*MERSEY—Weaver.* 489 *sq. mi.*								
D	Nantwich (Dorfold Hall)	Col. J. A. Saner, C.E. ..	8	1	0	190	817	32·18	190
D	,, (Reaseheath Hall) ...	,, ,, ,, ..	8	1	0	130	731	30·74	187
D	Sandbach (Malkins Bank)	Mssrs.BrunnerMond&Co	5	3	8	138	620	24·41	161
†	Congleton (Sewerage Works)...	J. H. Walter, Esq., C.E.	5	1	0	248	673	26·51	182
D†	,, (BuglawtonVicarage)	Col. J. A. Saner, C.E. ..	8	5	0	347	747	29·41	192
	Bosley Reservoir	Great Central Rly. Co. .	9	3	6	590	760	29·93	184
	,, Minns	,, ,, ,,	9	3	6	1210	587	23·13?	199
D	Middlewich	Mssrs.BrunnerMond&Co.	5	3	10	138	705	27·76	162
	,, (Bostock Hall)	Mr. A. H. Hall.........	5	2	0	157	782	30·78	..
	Delamere Forest (Kingswood) .	J.Simpson, Esq., *per*M.O.	..		..	355	786	30·86	..
D	Chelford (Astle Hall)	G. Dixon, Esq., ...	5	1	0	250	770	30·31	155
	,, (,, ,,)	M ,, ,, ,, ...	8	1	0	250	743	29·24	..
	Northwich	Great Central Rly. Co. .	9	3	6	76	722	28·42	154
D	,, (Hunts Lock)	Col. J. A. Saner, C.E. ..	8	1	0	47	823	32·40	193
D	,, (Winnington)	Mssrs.BrunnerMond&Co	5	1	0	64	784	30·85	175
D	,, (Lostock Gralam) ..	,, ,, ,,	5	3	6	75	818	32·22	181
	3.—*MERSEY. LOWER & C.* 142 *sq. mi.*								
D	Ince Hall	Mrs. Park-Yates	5	1	0	110	758	29·86	168
	Hooton Water Works.........	A. J. Robinson, Esq. ...	5	1	0	97	839	33·01	176
D	Eastham (Mill Hey)	Roger P. Sing, Esq.	5	1	7	125	962	37·88	185
	,, House	J. H. Vernon. Esq......	5	1	0	100	902	35·52	187
	Wirral W.W. (Prenton)	A. J. Robinson, Esq. ...	5	1	0	91	806	31·73	181
D	Rock Ferry (Elmhurst)	Miss Shepherd	8	6	0	110	912	35·92	167
	Birkenhead(BidstonObserv'y.) .	W. E. Plummer, Esq....	8	1	0	189	777	30·59	183
	Hoylake (District Council Office	R. W. Fraser,Esq.*per*MO	5	1	0	33	784	30·87	184
D	New Brighton (Marine Park)*..	Dr. T. W. N. Barlow ..	5	1	0	35	798	31·40	180
	4.—*DEE.* 127 *sq. mi.*								
	Eaton Hall Gardens	Mr. N. F. Barnes.......	5	3	0	72	679	26·75	..
	Eccleston	E. Wells, Esq.	5	1	1	94	755	29·71	157
D	Rowton (Holly Bank)	R. J. Salmon, Esq.	5	1	5	123	771	30·34	158
D	Chester (Curzon House)	J. H. Howell, Esq.	5	1	1	63	764	30·07	165
D	,, (Christleton Lodge) ...	Mr.C.R.Heywood,junr...	5	1	0	100	727	28·63	171
D	,, (Water Works)	C. Wilfrid Bennett, Esq.	5	0	10	85	781	30·75	165
D	,, (,, ,,)	,, ,, ,,	8	2	3	85	772	30·39	164
	,, (Northgate Station) ..	Great Central Rly. C.o .	9	3	6	84	702	27·64	..
	Capenhurst Hall	R. T. Richardson, Esq. .	5	5	10	125	853	33·59	169
D	Neston (Vine House)	H. F. Russell, Esq.	5	1	0	111	722	28·43	178
	West Kirby (Hilbre House)....	Egerton Macdona, Esq.	5	0	9	25	784	30·88	..
	,, ,, (,, Road).....	A. A. Barnes, Esq., C.E.	5	1	0	25	731	28·76	..
	,, ,, (The Abbey Manor)	Cedric R. Boult, Esq. ..	5	0	10	200	731	28·77	144
	SOUTH LANCASHIRE. (Area, 687 sq. mi.)								
	1.—*ALT & C.* 103 *sq. mi.*								
D	Liverpool (Huyton Vicarage) ..	Mrs. E. M. Sanderson ..	5	0	11	116	868	34·18	187
D	,, (Knotty Ash)	W. M. Reade, Esq.	5	1	0	100	852	33·54	219
D	Great Crosby	S. Wilson, Esq.	5	1	0	34	826	*32·51*	*179*
D	Blundellsands (Myra)	H. Montgomery, Esq....	5	1	0	35	814	32·06	187
D	Ormskirk(BickerstaffePump.St.)	G. H. Abbott, Esq......	5	1	2	128	859	33·83	188
D	,, (SpringfieldPump. Statn.)	,, ,, ,, ...	5	0	11	70	865	34·05	184

* Previously called Wallasey.

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
SOUTH LANCASHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
2.—*MERSEY, LOWER.* 240 *sq. mi.*								
Garston	H. Owens, Esq., C.E.	10	1	10	84	1060	41·75	190
D ,, (Grassendale Park)	Miss E. C. Abraham	5	1	0	35	877	34·51	177
D Aigburth (Holmfield)	Miss Maxwell	5	1	0	100	919	36·17	197
D ,, (Beech Lawn)	T. H. Edwards, Esq.	8	1	0	150	893	35·16	185
D Woolton (Roseleigh Gardens)	Mr. J. Stoney	8	1	0	180	944	37·18	182
D Warrington (Howley Yard)	A. M. Ker, Esq.	10	0	10	26	837	32·95	176
,, (Central Station)	Great Central Rly Co..	9	3	6	59	811	31·94	159
†Liverpool (Monument Place)	H. Owens, Esq., C.E.	5	1	3	126	841	33·13	183
D† ,, (,, ,, ,,) (R)	,, ,, ,,	10	4	6	129	825	32·49	181
,, (Smithdown Road)	,, ,, ,,	10	0	9	135	943	37·14	191
,, (Rathbone Road)	,, ,, ,,	10	1	0	199	1010	39·75	185
,, (Lank Lane)	,, ,, ,,	10	10	8	101	984	38·73	187
,, (Newsham Park)	,, ,, ,,	10	1	0	140	885	34·86	193
Liverpool (Huskisson Station)	Great Central Rly. Co.	9	3	6	42	827	32·56	164
,, (Breeze Lane)	H. Owens, Esq., C.E.	5	0	9	135	954	37·55	199
St. Helen's (Eccleston Hill)	A. W. Bradley, Esq.	12	2	9	268	863	*33·97*	..
D Earlestown (Newton Cemetery)	T. E. Clough, Esq.	5	1	0	75	867	34·13	147
D Leigh (Leesrigg)	Maj.T.Hunter,V.D.,C.E.	5	1	0	71	796	31·35	150
D Tyldesley Gas Works	Mark Newsome, Esq.	5	1	0	150	1043	41·07	142
3.—*MERSEY—Irwell.* 299 *sq. mi.*								
Urmston(Sew.Wks.,Davyhulme)	G. F. Walter, Esq.	8	2	3	72	705	27·76	*195*
D Manchester (Godlee Observ'y)	W. C. Jenkins, Esq.	8	1	3	140	808	31·81	193
,, (Piccadilly)	Great Central Rly. Co.	9	40	0	194	783	30·84	186
,, (Fairfield)	,, ,, ,,	9	6	0	312	812	31·96	191
† ,, (Oldham Road)	Dr. J. Niven	5	1	0	191	880	34·64	203
† ,, (Whitworth Park)	ManchesterUniv.*per*M.O.	8	1	5	126	800	31·50	185
D Ashton-und.-Lyne(KnottHillRs	G. H. Raddin,Esq.,C.E.	8	1	3	605	1013	39·90	188
Prestwich Reservoir	G. H. Hill, Esq., C.E.	12	2	0	356	832	32·75	..
D ,, (Heaton Park)	Bertram Meek, Esq.,C.E.	8	1	0	312	900	35·45	177
D Oldham (Gas Works)	Oldham Corporation	5	4	0	600	986	38·82	202
D† ,, (Alexandra Park)	Dr. J. B. Wilkinson	5	1	0	600	1087	42·85	207
,, (Honeywell Lane)	Great Central Rly. Co.	8	3	6	553	1010	39·77	201
,, (BrushesClough) *old g.*	C. J. Batley, Esq., C.E.	5	4	0	930	1117	43·97	209
,, (,, ,,)*new g.*	,, ,, ,,	5	4	0	930	1174	46·23	209
D†Bolton (Queen's Park)	T. Midgley, Esq.	5	1	0	342	1158	45·60	194
D† ,, (Heaton Reservoir)	LewisMitchell,Esq.,C.E.	5	1	0	500	1106	43·56	211
D ,, (Bloomfield, Heaton)	Mrs. F. Taylor	5	1	0	530	1071	42·17	213
,, (Smithills)	R. E. Proffitt, Esq.	5	6	0	492	1187	46·72	..
† ,, (,, Hall)	Col. R. H. Ainsworth	8	1	2	510	1215	47·82	..
,, (,, Moor)*weekly*	,, ,, ,,	8	1	2	1375	1247	49·08	..
D Bury (Parsons Lane)	R. B. Rigby, Esq.	8	9	8	316	1076	42·37	193
D New Hey (Sewage Works)	Mr. J. B. Ogden	5	1	0	514	1043	41·08	184
Milnrow (Butterworth Hall)	A. A. Barnes, Esq., C.E.	5	1	0	512	1084	42·68	..
D† ,, (Piethorne,Kitcliffe)	C. J. Batley, Esq., C.E.	5	4	6	769	1022	40·22	200
† ,, (,, Coldgreave)	,, ,, ,,	5	4	6	894	974	38·73	207
† ,, (,, Norman Hill)	,, ,, ,,	5	4	6	1076	941	37·06	206
† ,, (,, Rooden Res.)	,, ,, ,,	5	4	6	1131	920	36·23	206
D Rochdale (RochMillsSew.Wks.)	S. S. Platt, Esq., C.E.	8	1	1	363	1182	46·55	213
D† ,, (Broadfield Pk.Obsy.)	Dr. A. G. Anderson	8	0	6	472	1179	46·43	218
D ,, (Fieldhead Yard)	S. S. Platt, Esq., C.E.	8	12	0	484	1075	42·32	191

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	SOUTH LANCASHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*MERSEY—Irwell*—(*con.*)								
D	Rochdale (Fieldhead Yard) (R)	S. S. Platt, Esq., C.E.	8	12	0	484	1076	42·35	191
D†	,, (AshworthMoor Res.)	J. S. Diggle, Esq., C.E.	5	1	2	957	1071	42·15	186
D	Bury(Gin Hall) .... *No.* 1	J. WoodheadSmithEqCE.	8	1	0	475	1175	46·25	204
D	,, (,, ,,) .... *No.* 2	,, ,, ,,	8	1	0	475	1190	46·87	204
D†	Bolton(Belmont Reservoir)	LewisMitchell,Esq.,C.E.	5	1	0	800	1459	57·44	225
D	Rochdale (Hamer Pasture Res.)	F. H. Brunt, Esq.	5	1	0	760	1128	44·42	201
D	,, (Naden Filters)	J. S. Diggle, Esq., C.E.	5	1	8	761	1110	43·71	189
	Norden (Higher Red Lumb) M	,, ,, ,,	5	1	2	1125	1178	46·38	..
	,, (Far Knowl) M	,, ,, ,,	5	0	10	..	1243	48·92	..
	Rochdale (Naden Dean)*old g.* M	,, ,, ,,	5	1	7	948	919	36·17	..
	,, (,, ,,)*new g.*M	,, ,, ,,	5	1	4	948	1021	40·21	..
†	Ramsbotton (Killgate Brook) M	,, ,, ,,	5	1	0	978	1153	45·39	..
†	,, (CheesdenBarn) M	,, ,, ,,	5	1	0	997	1055	41·54	..
†	,, (ShuttleworthMoss) M	,, ,, ,,	5	0	11	1076	1075	42·34	..
	,,(Gt.Lodge,HigherHill) M	,, ,, ,,	5	1	0	1495	1030	40·54	..
D	Edenfield(ScoutMoorRes.)No. 1	J.WoodheadSmith,Eq.CE	8	1	0	1275	910	35·81	222
D	,, (,, ,, ,,)No. 2	,, ,, ,,	8	1	0	1275	934	36·76	222
D	Rochdale(SpringMillWhitworth)	F. H. Brunt, Esq.	5	1	7	720	1351	53·17	201
D	,, (Cowm, ,,)	,, ,, ,,	5	1	7	760	1257	49·48	193
D†	Entwistle Reservoir	Lewis Mitchell,Esq.,C.E.	5	1	0	700	1324	52·14	211
	Littleborough(Hollingw'thLake)	Rochdale Canal Co.	8	1	0	600	849	33·44	..
	,, (Windy Bank)	,, ,, ,,	8	2	0	605	942	37·10	..
	,, (Blackstone Edge)	,, ,, ,,	8	2	0	1225	701	27·60?	..
	,, (Canal Summit)	,, ,, ,,	8	2	0	700	859	33·84	..
	,, (Chelburn)	,, ,, ,,	8	2	0	800	951	37·45	..
	,, (ByronEdgeDrain	,, ,, ,,	8	1	5	1250	903	35·54	..
	,, (Lenches)	,, ,, ,,	8	2	0	806	1006	39·59	..
	Walsden (Calf Lee)	,, ,, ,,	10	1	6	960	986	38·83	..
	,, (Warland Drain)	,, ,, ,,	8	1	5	1250	711	28·01?	..
	,, (Whiteholme Drain)	,, ,, ,,	8	1	5	1250	888	34·98	..
	,, (Rishworth Drain)	,, ,, ,,	8	1	5	1200	819	32·25	..
D†	Haslingden(Holden Wood) No.1	J.WoodheadSmith.EqCE.	8	1	0	670	1351	52·81	216
D	,, (,, ,,)No.2	,, ,, ,,	8	1	0	670	1317	51·86	216
D†	,, (Calf Hey) No.1	,, ,, ,,	8	1	0	800	1252	49·31	216
D	,, (,, ,,) No.2	,, ,, ,,	8	1	0	800	1209	47·62	216
	Newchurch-in-Rossendale Rec.	Rev. T. S. Addison	5	0	11	750	1082	42·60	195
	Rawtenstall Cemetery	P. Holt, Esq., C.E.	8	1	0	572	885	34·86?	152
D†	,, (CloughbottomRes.)No1	J.WoodheadSmith,Eq.CE	8	1	0	1025	1101	43·36	182
D	,, (,, ,,) No.2	,, ,, ,,	8	1	0	1025	1047	41·21	182
D†	,, (Hapton Reservoir)No.1	,, ,, ,,	8	1	0	930	1193	46·97	209
D	,, (,, ,,) No.2	,, ,, ,,	8	1	0	930	1229	48·39	209
	4.—*MERSEY, UPPER.* 45 *sq. mi.*								
D	Didsbury (Linden Road)	L. G. King, Esq.	8	1	6	110	762	30·01	189
D	Heaton Mersey [Stockport]	W. B. Leigh, Esq.	5	1	0	218	693	27·27	185
	Withington (Town Hall) ... (R)	A. A. Barnes, Esq., C.E.	8	3	0	111	651	25·62	..
D	Chorlton-cum-HardySew.Works	G. F. Walter, Esq.	8	4	0	76	780	30·70	180
D	,, ,, ,,	J. H. Casartelli, Esq.	5	2	0	75	790	31·09	175
	Withington (Lady BarnHo.Sch)	Miss E. Burn	5	0	6	122	590	23·22	148
D	Fallowfield (Platt Field Park)	BertramMeek,Esq.,C.E.	8	3	3	124	759	29·87	188
	Denton Reservoir	G. H. Hill, Esq., C.E.	12	2	0	324	711	27·98	..

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
SOUTH LANCASHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
4.—*MERSEY, UPPER*—(*con.*)								
Gorton Reservoir	G. H. Hill, Esq., C.E.	12	2	0	263	721	28·37	..
D Ashtonunder-Lyne Henrietta St	G.H.Raddin, Esq., C.E.	7	1	0	394	964	37·95	214
,, ,, ,, (Waterhouses)	Great Central Rly.Co.	9	3	6	345	867	34·12	199
D Lower Swineshaw Reservoir	G.H.Raddin, Esq., C.E.	8	1	0	886	999	39·35	212
Swineshaw Moor	,, ,, ,,	5	1	0	1340	1019	40·12	..
D Mossley (Manor House Yard)	,, ,, ,,	5	1	0	636	1135	44·68	195
CENTRAL LANCASHIRE. (Area, 536 sq. mi.)								
1.—*RIBBLE & C.* 326 *sq. mi.*								
†Rivington (Higher Hill)	J. R. Davidson, Esq., C.E.	3	1	4	733	924	36·38	..
D Haslingden (MitchellsHo.Res.)	C. Harrison, Esq.	5	1	6	990	1139	44·85	171
D Darwen (Sunnyhurst Hey Res.)	E. Marsden, Esq., C.E.	8	1	8	915	1065	41·94	201
D ,, (Earnsdale Reservoir)	,, ,, ,,	8	1	8	705	1083	42·63	200
D ,, (Sewage Works)	,, ,, ,,	5	1	6	460	1121	44·14	175
D ,, (Bold Venture Park)	Dr. F. G. Haworth	8	1	1	722	1298	51·12	215
,, (Hoddlesden) No.1	J. T. Shield, Esq., C.E.	8	4	0	680	1172	46·15	196
,, (,,) No.2	,, ,, ,,	8	1	0	675	1216	47·88	196
† ,, (Daisy Green) No.1	,, ,, ,,	8	1	0	969	1235	48·63	196
,, (,, ,,) No.2	,, ,, ,,	8	1	0	969	1217	47·91	196
,, (Pickup Bank) No.1	,, ,, ,,	8	1	0	720	1211	47·68	194
,, (,, ,,) No.2	,, ,, ,,	8	1	0	720	1199	47·21	194
D Brindle (Whiteholme)	Victor H. Gatty, Esq.	5	1	8	315	906	35·68	188
†Blackburn (Guide Reservoir)	J. T. Shield, Esq., C.E.	8	1	0	650	1232	48·51	198
,, (Witton)	,, ,, ,,	8	2	6	315	1250	49·23	183
† ,, (Corporation Park)	,, ,, ,,	8	0	6	584	1112	43·77	..
† ,, (Pumping Station)	,, ,, ,,	8	6	0	600	1067	42·02	176
Accrington (Milnshaw Park)	Mr. J. W Terry	5	1	6	464	1001	39·41	177
D Hutton (Lancs.C.C.HorticStat.)	Dr. H. Lloyd Snape	5	1	0	82	842	33·15	183
D Penwortham Hall	Rev. T. R. Finch	5	0	9	100	923	36·36	173
Higher Walton (Bannister Hall)	A. A. Gatty, Esq.	5	0	7	75	922	36·29	..
D Preston (Corporation Offices)	J. H. Smethurst, Esq. C.E.	8	18	7	148	923	36·34	189
Samlesbury Sewage Works	J. T. Shield, Esq., C.E.	8	..		240	1020	40·16	186
Rishton Reservoir	Leeds&L'poolCanalCo.	..	..		467	821	32·34	..
†Causeway Side (Burnley W.W.)	W. Williamson, Esq.	8	2	0	1116	1016	39·99	..
†Sheddin (,, ,,)	,, ,, ,,	8	2	0	960	961	37·85	..
†Cant Clough, S.Side (,, ,,)	,, ,, ,,	8	2	0	900	986	38·81	213
† ,, ,, N. Side (,, ,,)	,, ,, ,,	8	2	0	900	927	36·48	211
Rams CloughHead (,, ,,)	,, ,, ,,	8	2	0	1260	995	39·16	..
D Huncoat (Burnley Road Res.)	C. Harrison, Esq.	9	1	6	620	1233	48·55	177
Great Harwood (ParsonageRes.)	J. T. Shield, Esq., C.E.	..	1	6	631	1005	39·57	168
D ,, ,, (Dean Clough)	C. Harrison, Esq.	12	1	6	540	1121	44·15	220
D Burnley (Queen's Park)	Dr. R. G. Markham	8	1	6	459	878	34·57	162
,, (Yorkshire Street)	W. Williamson, Esq.	8	30	0	420	929	36·57	186
† ,, (Swinden) *Upper g.*	,, ,, ,,	8	12	0	820	1053	41·45	209
† ,, (,,) *Lower g.*	,, ,, ,,	8	2	0	745	1091	42·94	209
† ,, (Extwistle Moor Top)	,, ,, ,,	8	2	0	1310	1068	42·05	..
D ,, (Gawthorpe Hall)	Lord Shuttleworth	8	0	9	316	1018	40·09	192
D ,, (Huntroyde)	N. G. Howsin, Esq.	5	1	0	423	1070	42·12	153
Alston Reservoir	J.H.Smethurst, Esq., C.E.	8	1	2	320	946	37·25	..

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	ft.	in.	*feet*	*mm.*	*inches*	
CENTRAL LANCASHIRE—(*con.*)								
1.—*RIBBLE & C.*—(*con.*)								
D†Stonyhurst College	Rev. W. Sidgreaves, S.J.	8	1	10	377	1122	44·18	192
† ,, ,,	(R) ,, ,, ,,	11	1	10	377	1122	44·18	195
† ,, ,,	M ,, ,, ,,	11	1	0	376	1104	43·45	..
KnowleGreen(PrestonW.W.)	M J.H.Smethurst,Esq.C.E.	8	1	2	400	938	36·95	..
Loud Scales (,, ,,)	M ,, ,, ,,	8	1	2	400	1000	39·36	..
Spade Mill (,, ,,)	M ,, ,, ,,	8	1	2	400	926	36·47	..
Jeffrey Hill (,, ,,)	M ,, ,, ,,	8	1	2	900	1013	39·90	..
Colne (The Rectory)	Rev. Dr. S. P. Duval	5	1	5	538	1059	41·69	*211*
D† ,, (Cemetery Grounds)	(R) T. H. Hartley, Esq.	8	2	11	619	923	36·33	184
D†Pendle Hill (Ogden Reservoir)	Smith Whitehead, Esq., CE	8	2	0	950	946	37·24	149
Barrowford Reservoir	Leeds & L'pool Canal Co.	8	1	0	473	1046	41·17	..
Foulridge (Upper Reservoir)	,, ,, ,,	8	1	0	582	990	38·97	..
†Clitheroe (Downham Hall)	R. C. Assheton, Esq.	10	1	6	464	942	37·10	..
2.—*RIBBLE—Douglas.* 156 *sq. mi.*								
D Upholland Grammar School	C. H. Cox, Esq.	5	1	0	310	990	38·98	217
D Wigan W.W. (Worthington)	T. L. Hughes, Esq.	8	1	6	225	980	38·58	198
D†Horwich (Lower Rivington)	J.R.Davidson, Esq., C.E.	3	1	0	440	1020	40·17	216
† ,, (Lower Knoll)	,, ,, ,,	3	1	4	742	1057	41·61	..
Bispham (Wigan W.W.)	A. A. Barnes, Esq, C.E.	..		..	450	970	38·18	..
Rufford Park	J. P. Maitland, Esq.	5	1	0	41	908	35·73	183
†Rivington (Brown Hill)	J. R. Davidson, Esq., C.E.	3	1	4	843	1033	40·66	..
D† ,, (Stoneshouse)..No. 1	,, ,, ,,	3	1	4	623	978	*38·49*	*217*
† ,, (,,)..No. 2	,, ,, ,,	3	1	4	623	978	38·52	..
† ,, (Hurst Hill)	,, ,, ,,	3	1	10	1029	1056	41·59	..
† ,, (Great Hill)	,, ,, ,,	3	1	8	1240	1141	44·91	..
† ,, (Coppice Stile)	,, ,, ,,	3	1	8	879	974	38·35	..
† ,, (Gamekeeper's)	,, ,, ,,	3	0	8	850	1112	43·80	..
Leyland (Worden Hall)	H. Nowell ffarington, Esq	5	1	0	125	888	34·96	201
,, (,, ,,)	M ,, ,, ,,	5	1	0	125	857	33·74	..
D Bamber Bridge (Cuerden Hall)	R. A. Tatton, Esq.	5	1	0	230	857	33·74	173
3.—*COAST STREAMS.* 52 *sq. mi.*								
D Scarisbrick (Pinfold Cottage)	J. Johnson, Esq.	5	1	0	69	849	33·44	198
Southport (Birkdale)	M J. Baxendell, Esq.	5	1	0	27	841	33·12	..
D† ,, (Hesketh Park)	,, ,, ,,	5	1	0	38	854	33·63	179
D† ,, (,, ,,) *M.O.g.*	,, ,, ,,	8	1	0	38	856	33·71	180
D† ,, (,, ,,)	(R) ,, ,, ,,	11	1	5	39	855	33·65	179
† ,, (Lord Street Station)	Great Central Rly. Co.	9	3	6	21	771	30·35	163
D ,, (Forest Road)	J. H. Bonny, Esq.	5	1	6	25	811	31·94	178
4—*OUSE—Aire.* 2 *sq. mi.*								
D Worthdale (WatersheddlesRes.)	M. R. Barnett, Esq., C.E.	5	1	0	1115	1227	48·30	204
Foulridge (Canal Office)	Leeds & L'pool Canal Co.	8	1	0	497	1119	44·04	..
,, (Cragg Nook Hill)	,, ,, ,,	8	1	0	690	1030	40·55	..
NORTH LANCASHIRE. (Area, 609 sq. mi.)								
1.—*DUDDON & C.* 77 *sq. mi.*								
D Barrow-in-Furness (Walney I.)	H. F. Jackson, Esq.	6	1	10	70	985	38·79	175
D ,, ,, (GasWorks)	F. Chadderton, Esq.	11	1	6	36	1038	40·86	174
D ,, ,, (Sewage Works)	W. C. Persey, Esq., C.E.	5	1	0	21	1080	42·52	184
D Urswick School House	J. Dobson, Esq.	5	1	3	140	1154	45·44	189
D Bardsea School	Arthur Fox, Esq.	5	1	0	84	1214	47·78	184

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
NORTH LANCASHIRE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*DUDDON & C.*—(*con.*)								
D Ulpha	F. Chadderton, Esq.	11	1	6	251	1912	75·28	216
D Duddon Valley (SeathwaiteVic)	Rev. C. W. Wakefield	5	1	0	348	1890	74·40	203
,, ,, (,, Tarn)	F. Chadderton, Esq.	11	1	6	1221	2231	87·82	..
2.—*LEVEN & C* 135 *sq. mi.*								
D†Cartmel (Carke)	R. Heathcote, Esq.	5	1	0	76	1122	44·19	186
D ,, (Holker Hall)	Lord RichardCavendish	5	0	9	85	1200	47·24	208
D Ulverston (Poaka Beck)	F. Chadderton, Esq.	11	1	6	512	1374	54·10	195
D†Cartmel (Aynsome)	JStewartRemingtonEsq.	8	2	0	132	1301	51·23	194
D ,, W.W.(NewtonRes.)(R)	T. Huddleston,Esq.,C.E.	10	1	0	586	1362	53·61	211
Rusland Hall	Mrs. Archibald	5	14	0	45	1141	44·91	189
D Greenodd (Pennybridge School)	W. White, Esq.	5	4	6	118	1427	56·17	190
Graythwaite	HTGnosspelius Esq*pr*MO.	8	1	0	185	1462	57·58	199
D Coniston (Water Park)	Miss C. Marshall	6	1	0	165	1575	62·02	175
D ,, (Holywath)	Mrs. J. Barratt	8	0	9	200	2303	90·65	208
,, Park	Mr. W. G. Wilson	5	1	2	305	1767	69·58	187
D†Hawkshead(TowerBankSawrey)	Miss Alcock-Beck	5	2	0	342	1565	61·63	204
,, School	J. Lowe Handley, Esq.	5	0	7	214	1888	74·34	..
D ,, (Esthwaite Lodge)	Miss Brown	5	0	6	224	1704	67·10	204
,, (Black Fell) ....M	Miss C. Marshall	5	1	6	1055	1572	61·90	..
D†Skelwith Fold [Ambleside]	,, ,,	5	1	0	333	1802	70·94	189
† ,, ,, [,,] .. M	,, ,,	5	1	0	333	1825	71·86	..
3.—*KENT & C.* 45 *sq. mi.*								
D Heysham Harbour	Midland Railway Co.	5	1	6	28	910	35·82	163
D ,, House	Miss Tomlinson	5	1	6	80	1099	43·28	228
Morecambe	Mr.T.B.Lamb,*per*M.O.	8	1	0	24	911	35·87	180
Bolton-le-Sands Vicarage	Rev. A. R. Tomlinson	5	1	2	80	1046	41·17	..
D Carnforth (Over Kellet)	W. Farrer, Esq.	8	1	6	174	1022	40·26	199
D Yealand Conyers (Beechfield)	Mrs. Roper	5	1	0	250	946	37·26	177
D ,, ,, (Morecambe Lo.)	J. Rawlinson Ford, Esq.	5	1	0	278	1215	47·82	211
D†Grange-over-Sands(Nutwood)	Miss S. M. Arkwright	5	1	0	..	1137	44·76	184
D†Cartmel Fell (TheSchoolhouse)	R. J. Cragghill, Esq.	5	5	0	220	1385	54·53	194
4.—*LUNE.* 135 *sq. mi.* ..								
D†Hampson-in-Ellel	W. G. Welch, Esq.	5	1	6	145	972	38·27	185
D†Lancaster (Bailrigg)	H. L. Storey, Esq.	5	1	3	200	1056	41·59	209
†Quernmore (Brow Top)	F. Hill, Esq., C.E.	8	1	0	552	1232	48·52	196
†Bowland Forest (Higher Salter)	J. T. Sanderson, Esq.	5	1	0	1014	990	38·96?	..
† ,, ,, (Whiteray)	,, ,, ,,	5	1	0	1139	1441	56·74	..
,, ,, (Lower Salter)	,, ,, ,,	5	1	0	575	1325	52·18	..
D†Lancaster (Strathspey)	A. B. S. Welch, Esq.	5	1	0	87	967	38·07	193
,, (BleaTarnReservoir)	F. Hill, Esq., C.E.	8	1	0	330	953	37·52	181
D ,, (Greg Observatory)	Neville Holden, Esq.	8	1	0	312	1069	42·08	210
,, (Robert Street)	F. Hill, Esq., C.E.	8	1	0	62	990	38·97	192
Caton (School House)	W Shaw, Esq.	5	1	0	170	1013	39·89	..
D Halton Park	J. G. Wright, Esq.	5	1	1	434	1100	43·32	180
D†Wray Vicarage	Rev. C. L. Reynolds	5	1	0	165	1066	41·97	191
D Leck Vicarage	Rev. J. Turner	5	1	1	400	1013	39·88	202
5.—*WYRE & C.* 213 *sq. mi.*								
D St.Anne's-on-Sea (Whitehall)	M. B. Copland, Esq.	8	1	8	20	901	35·48	193
D ,, ,, ,,	Mr. W. E. Procter	5	1	0	25	867	34·15	165
D ,, ,, ,, (LawrenceHo.)	C. G. D. Hoare, Esq.	5	1	0	30	827	32·58	159

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in*	*feet*	*mm.*	*inches*	
NORTH LANCASHIRE—(*con.*)								
5.—*WYRE & C.*—(*con.*)								
D†Weeton Reservoir No. 1	J. Cook, Esq., C.E.	5	1	0	133	934	36·76	171
D† ,, ,, No. 2	,, ,, ,,	5	1	0	150	809	31·83?	153
D† ,, ,, No. 3	,, ,, ,,	5	1	0	108	944	37·15	170
D†Blackpool (Met. Observatory)	E.W.Rees Jones, Eq., M.D.	5	1	0	67	856	33·69	195
D Kirkham (Elswick Lodge)	L. G. King, Esq.	5	1	4	52	966	38·02	195
Poulton-le-Fylde (Singleton Pk.)	Mrs. Miller	8	0	11	50	1087	42·78	203
D St. Michael's-on-Wyre (Rose Cot.)	J. Moss, Esq.	5	1	0	27	895	35·23	184
D† ,, ,, ,, Vicarage	Ven. Archdeacon Hornby	5	1	0	26	910	35·83	180
D†Fleetwood	(R) E. Frobisher, Esq.	8	1	8	29	815	32·09	179
D Garstang (Calder Br. Cottages)	E. Curwen, Esq.	5	1	0	50	980	38·59	192
† ,, (Holme Ho., Bleasdale)	A. Wilson, Esq.	5	1	0	650	1359	53·49	..
Garstang (Fairsnape Fell)	,, ,,	5	1	0	1630	1175	69·88	..
D† ,, (Barnacre Reservoir)	J. Cook, Esq., C.E.	5	1	0	616	1248	49·14	199
D† ,, (Grizedale Reservoir)	,, ,, ,,	5	1	0	517	1183	46·58	197
,, (Calder Intake)	,, ,, ,,	5	1	0	632	1186	46·69	..
,, (Grizedale Intake)	,, ,, ,,	5	1	0	644	1163	*45·77*	..
D Forton (Low Abbey)	Stephen Simpson, Esq.	5	1	6	80	976	38·41	195
†Wyresdale (Abbeystead Res.)	F. Hill, Esq., C.E.	8	1	0	366	1267	49·89	173
D† ,, (,, Gardens)	Mr. T. Wyton	8	1	0	440	1259	49·56	188
Quernmore (Old Gauge Basin)	M F. Hill, Esq., C.E.	8	1	0	963	1051	41·36	..
Wyresdale (Wardstone)	M ,, ,, ,,	8	1	0	1440	1392	54·81	..
6.—*INSULAR.* 4 *sq. mi.*								

DIVISION IX.—YORKSHIRE.

STATIONS.	AUTHORITIES.	Diam	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
WEST RIDING. (Area, **2791** sq. mi.)								
1.—*LUNE.* 178 *sq. mi.*								
D High Bentham (Inglefield)	Mr. Bryan Holmes	5	1	0	412	956	37·65	192
D ,, (Ingledene)	A. Wilson, Esq.	5	1	0	400	998	39·29	207
Ingleton (Kingsdale Head)	Mr. L. Pye	5	0	10	994	1910	75·42	..
D Hawes Junction	Mr. W. H. Bunce	5	1	0	1130	1548	60·96	224
Sedbergh (Dent Post Office)	Mr. J. Mason	5	1	0	484	1369	53·91	195
D ,, (Akay)	C. E. Taylor, Esq.	5	1	0	400	1411	55·57	204
D ,, (Cemetery)	Mr. J. Anderson	5	1	0	374	1407	55·38	206
D ,, (Bynac)	Mrs. B. Wilson	5	1	0	480	1368	53·85	208
D ,, (Howgill School)	W. Woodhead, Esq.	5	1	0	550	1366	53·78	196
2.—*RIBBLE.* 225 sq. mi								
D Laneshaw Reservoir [Colne]	J. F. Bedford, Esq.	5	1	0	842	819	32·26	179
Barnoldswick (Rainhall Road)	Asa Burniston, Esq.	5	1	2	549	895	35·22	*176*
,, (Greenberfield Lock)	Leeds & L'pool Canal Co.	8	1	0	488	966	38·01	..
†Slaidburn (Knowlmere Manor)	W. Peel, Esq.	5	1	0	417	1375	54·12	..
,, (Thorneyholme)	R. A. Tatton, Esq.	5	1	6	380	1438	56·60	..
,, (Hareden Brook)	M J. H. Smethurst Esq., C.E.	8	1	2	540	1648	64·90	..
† ,, (Langden Brook)	M ,, ,, ,,	8	1	2	556	1650	64·95	..
† ,, (Whiteholme)	W. King Wilkinson, Esq.	5	1	3	475	1220	48·03	..
† ,, (Dunsop Houses)	J. T. Shield, Esq., C.E.	8	1	0	450	1539	60·59	175
† ,, (Middle Knoll)	M ,, ,, ,,	8	2	6	1298	1287	50·66	..
,, (Brennand)	,, ,, ,,	8	1	0	820	1637	64·46	175
† ,, (Whitendale)	,, ,, ,,	8	1	0	830	1782	70·15	167
,, (Cabin Hill)	M ,, ,, ,,	8	3	1	1559	1259	49·56	..
† ,, (Baxton Fell)	M ,, ,, ,,	8	2	6	1540	1324	52·13	..

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
WEST RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
2.—*RIBBLE*—(*con.*)								
D†Settle (Gas Works)	J. W. Shepherd, Esq.	8	1	2	450	1044	41·12	214
D Horton-in-Ribblesdale	Nathaniel Hunt, Esq.	5	1	0	800	1386	54·58	201
3.—*MERSEY.*—*Irwell.* 2 *sq. mi.*								
4.—*MERSEY, UPPER.* 35 *sq mi.*								
Greenfield(Upperwood Moor)	G.H.Raddin,Esq., C.E	5	1	0	1518	1189	46·82	..
D ,, ((Chew Mount)	,, ,, ,,	5	1	0	1578	1445	56·90	211
,, (,, Reservoir)	,, ,, ,,	5	1	0	1650	1162	45·76	..
D ,, (Yeoman Hey)	,, ,, ,,	5	1	0	784	1339	52·72	205
,, (Ashway Moss)	,, ,, ,,	5	1	0	1581	1030	40·56	..
,, (Birchen Clough)	,, ,, ,,	5	1	0	1017	1450	57·09	..
Saddleworth Station	M E. Prebble, Esq., C.E.	5	4	2	630	943	37·14	..
Strinesdale [Oldham]	C. J. Batley, Esq., C.E.	5	4	0	815	999	39·31	205
D Standedge(Cas ShawBroadhead)	,, ,, ,,	8	4	6	876	1090	42·90	212
† ,, (,, Cudworth)	,, ,, ,,	5	4	6	1410	766	30·15?	212
† ,, (Redbrook Res.)	E. Prebble, Esq., C.E.	8	1	6	1150	1089	42·87	..
†Denshaw (Ox Hey)	C. J. Batley, Esq., C.E.	8	4	6	1030	1064	41·91	205
D† ,, (New Year's Bridge)	,, ,, ,,	8	4	0	1012	993	39·08	205
† ,, (Ready Con Dean)	,, ,, ,,	8	4	0	1414	1044	41·09	205
5.—*TRENT*—*Derwent.* 7 *sq. mi.*								
Derwent Dale(AbbeyBrook)	65S. B. Winser, Esq.,C.E.	5	1	0	825	1016	40·00	..
,, ,, (Howden Clough)	64 ,, ,, ,,	5	1	0	1030	1030	40·54	..
,, ,, (,, Ho.)	19 ,, ,, ,,	8	1	0	890	1055	41·55	..
,, ,, (Sandy Lee)	No. 7 ,, ,, ,,	5	1	0	1340	1020	40·14	..
6.—*TRENT*—*Left Bank Tributaries.* 143 *sq. mi.*								
D Woodsetts Grange(OldVicarage)	H. P. Marsh, Esq.	..	..	..	234	581	22·86	180
D†Doncaster (Carr House Hosp'l.)	Dr. D. L. Anderson	5	1	1	40	512	20·15	151
7.—*OUSE*—*Don.* 564 *sq. mi.*								
D Sheffield (Millhouses)	T. Firth, Esq.	5	1	6	355	678	26·71	187
D ,, (Stumperlow Hall)	J. Dixon, Esq.	5	1	0	730	729	28·72	192
D (,, ,,)	,, ,,	5	1	0	770	728	28·68	194
D ,, W.W.(RedmiresRes.) (R)	L. S. M.Marsh,Esq.,C.E.	10	5	0	1110	880	34·64	196
,, ,, (,, ,,)*weekly*	,, ,, ,,	8	4	0	1110	865	34·07	..
D ,, ,, (Rivelin) (R)	,, ,, ,,	10	4	0	564	714	28·13	192
,, , (,,) *weekly*	,, ,, ,,	8	4	0	564	713	28·08	..
D ,, ,, (Crookes) (R)	,, ,, ,,	10	2	0	629	637	25·08	181
,, ,, (,,) *weekly*	,, ,, ,,	8	2	0	629	636	25·02	..
D† ,, (Weston Park)	E. Howarth, Esq.	8	1	0	430	661	26·02	193
D Darnall (High Hazels)	,, ,, ,,	8	1	0	285	558	21·96	175
Sheffield, (Victoria Station)	Great Central Rly. Co.	9	3	6	188	518	20·40	160
Loxley Valley (Broadcar) *No.1*	L.S.M.Marsh, Esq., C.E.	5	1	0	1004	1027	40·43	..
,, ,, (OaksFm.Damflask)	,, ,, ,,	5	1	0	650	824	32·43	..
,, ,, (Loftshaw,Strines)	,, ,, ,,	5	1	0	1011	1009	39·72	..
D ,, ,, (DaleDykeRes.)(R	,, ,, ,,	10	3	0	715	926	36·45	210
,, ,, (,, ,,)*weekly*	,, ,, ,,	8	3	0	715	915	36·02	..
,, ,, (Thornseat)	,, ,, ,,	5	1	0	1326	985	38·78	..
,, ,, (Rocher Flat)	,, ,, ,,	5	1	0	1106	811	31·95	..
,, ,, (MortimerHouse)	,, ,, ,,	5	1	0	1036	819	32·26	..
Rotherham(UlleyReservoir)	T. P. Collinge,Esq.,C.E.	5	1	0	184	421	16·58	..
Sheffield (Tinsley Locks)	Great Central Rly. Co.	9	..		117	466	18·33	155
D Wincobank (Sewage Works) (R)	J. Haworth, Esq.	8	2	0	99	446	17·57	149
D Rotherham (Sitwell Vale)	Mr. G. Howard	5	1	0	300	535	21·06	158

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
WEST RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
7.—*OUSE—Don*—(*con.*)								
D Rotherham (Moorgate Grange)	F. M. Watson, Esq.	5	1	0	262	625	24·60	149
,, (AldwarkeSew.Wk.)	James H. Kershaw, Esq.	5	1	4	71	578	22·76	..
D ,, (Thrybergh)	R. E. Ford, Esq., C.E.	8	1	0	184	510	20·09	162
D Chapeltown (Potter Hill)	Mr. C. W. Frost	8	5	0	581	605	23·81	159
D Conisborough (Firsby Reservoir)	R. E. Ford, Esq., C.E.	8	1	4	189	529	20·82	156
Wentworth Woodhouse	Mr. A. Third	5	0	10	360	636	25·05	..
D Mexborough	G. Fenwick Carter Esq. C.E.	5	1	6	77	539	21·22	188
Wortley	Great Central Rly. Co.	9	3	6	548	615	24·22	154
,, Service Reservoir	J. H. Taylor, Esq., C.E.	5	1	0	700	630	24·82	180
Elsecar	Great Central Rly. Co.	9	3	6	181	512	20·14	160
Langsett Moor (Catcleugh) *wkly*	L. S. M. Marsh, Esq., C.E.	8	1	6	1516	1072	42·22	..
,, ,, (Mickleden) *wkly*	,, ,, ,,	5	1	6	1217	1120	44·08	..
D ,, ,, (Upper Midhope)	,, ,, ,,	8	1	6	925	948	37·32	210
D ,, ,, (Midhope)	J. H. Taylor, Esq., C.E.	5	1	0	830	758	29·85	199
D Little Don Val. (Underbank Res.)	L. S. M. Marsh, Esq., C.E.	8	1	6	604	808	31·80	206
,, ,, (Brockholes) *wkly*	,, ,, ,,	5	1	6	934	758	29·86	..
,, ,, (Sheep House) *wkly*	,, ,, ,,	5	1	6	974	780	30·73	..
D† ,, ,, (Bridge Lane)	,, ,, ,,	8	4	9	761	938	36·93	210
D† Langsett Moor (Flouch Road)	,, ,, ,,	8	4	3	960	953	37·53	211
,, ,, (Fiddlers Green) *wkly*	,, ,, ,,	8	1	6	1493	1118	44·03	..
,, ,, (Border Hill) *weekly*	,, ,, ,,	5	1	6	1148	1074	42·27	..
D ,, ,, (Swinden Lodge)	,, ,, ,,	8	1	6	1037	1026	40·38	206
D Wath-upon-Dearne (Chapel St.)	Dr. F. J. Burman	8	2	2	188	529	20·84	172
Bolton-upon-Dearne	T. Washington, Esq.	5	1	0	130	532	20·95	160
Worsborough	Great Central Rly Co.	9	3	6	225	591	23·26	172
†Doncaster (Hexthorpe Hall)	H. Morris, Esq.	5	1	6	30	555	21·87	..
,, (Littlemoor Terrace)	R. F. Moate, Esq.	5	1	6	50	499	19·64	..
,,	Great Central Rly. Co.	9	3	6	32	459	18·07	140
D† ,, (Pumping Station)	R. E. Ford, Esq., C.E.	5	1	6	30	452	17·78	152
D† ,, (Avenue Road)	M. H. Stiles, Esq.	5	4	0	62	535	21·06	171
Dunford Bridge (Windieden)	H. Dearden, Esq., C.E.	12	2	2	1100	1088	42·82	..
,, ,, Station	Great Central Rly. Co.	9	3	6	954	1044	41·11	206
D ,, ,, Reservoir	H. Dearden, Esq., C.E.	12	2	0	1111	1071	42·15	205
Penistone	Great Central Rly. Co.	9	3	6	717	578	22·77?	..
,, (Hazlehead)	,, ,, ,,	9	3	9	868	1011	39·81	188
,, (Ingbirchworth Res.)	J. H. Taylor, Esq., C.E.	8	1	3	853	750	29·52	195
Barnsley (Jordan Hill)	,, ,, ,,	8	1	0	460	542	21·35	139
,,	Great Central Rly. Co.	9	3	6	317	434	17·09	143
D Cawthorne (Cannon Hall)	Capt. J. H. Pardoe	5	0	11	418	679	26·72	171
D Brodsworth Hall Gardens	Mr. F. W. Larner	5	1	0	175	480	18·89	157
Burntwood Hall	J. Dymond, Esq:	5	1	0	378	570	22·43	159
Doncaster (Wyndthorpe)	Viscountess Chetwynd	5	0	11	13	484	19·04	..
D Kirk Bramwith	H. A. Brundell, Esq., C.E.	5	1	0	17	578	22·74	151
D Hemsworth Hall	Mr. E. T. Bendall	5	1	0	250	560	22·04	150
D ,, Collieries	C. P. Finn, Esq.	5	1	3	246	617	24·28	170
D Badsworth (Rogerthorpe Manr)	Lt.-Col. W. J. F. Ramsden	8	1	2	150	515	20·29	168
D Ackworth School	E. Priestman, Esq.	8	1	0	125	550	21·64	168
D ,, (Hillthorpe)	Mrs. F. Hatchard	5	1	5	175	555	21·86	156
,, (Nostell Priory)	G. A. Croft, Esq.	5	4	0	200	568	22·35	..
Womersley Park	Mr. J. Hughes	8	0	8	50	493	19·42	..

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
WEST RIDING—(*con.*)								
7.—*OUSE—Don—*(*con.*)								
D Stapleton Gardens	Mr. W. H. Dobson	5	4	6	50	549	21·61	158
†Goole (Swinefleet)	Mr. G. Harrison	5	5	6	10	622	24·48	..
† ,,	A. W. Wright, Esq.	5	2	0	18	670	26·39	..
8.—*OUSE—Aire—Calder.* 361 *sq. mi.*								
D†Holmbridge (Yateholme Res.)	J.C.Barrowclough,Eq.,CE	5	1	0	1000	1481	58·29	212
D† ,, (,, Farm)	,, ,, ,,	5	1	0	861	1405	55·30	212
† ,, (Holme Styes Res.)	Mr. B. T. Woodcock	7	2	0	830	975	38·40	..
† ,, (BoshawWhams Res.)	,, ,, ,,	7	2	0	930	1145	45·10	..
† ,, (Bilberry Res.)	,, ,, ,,	5	1	0	970	1346	53·00	..
†Meltham (Harden Moss)	J. W.Armitage,Esq.,C.E.	8	1	2	1212	1124	44·24	..
† ,, (,, ,,) *new g*	,, ,, ,,	8	1	0	1212	1106	43·53	..
†Wessenden Head	,, ,, ,,	8	1	0	1270	1039	40·90	..
,, ,, *new g.*	,, ,, ,,	8	1	0	1200	1187	46·72	..
† ,, (Hollin Bank Moss)	,, ,, ,,	8	1	0	1360	799	31·44?	..
† ,, (Old Reservoir)	,, ,, ,,	8	1	0	940	1234	48·60	..
† ,, (Butterley Moss)	,, ,, ,,	8	1	0	1110	1032	40·65	..
† ,, (Bobus)	,, ,, ,,	8	1	0	1200	1025	40·37	..
†Meltham (Brow Grains)	,, ,, ,,	8	1	0	900	1080	42·52	..
,, (RoydEdge *M.O. g.*	C. L. Brook, Esq.	8	1	0	585	1137	44·76	..
D ,, (Harewood Lodge)	,, ,, ,,	8	1	0	514	1060	41·73	200
† ,, Grange	J.W.Armitage,Esq.,C.E.	8	1	2	850	991	39·03	..
†Marsden (Deer Hill) *old g.*	,, ,, ,,	8	1	0	1149	884	34·79	..
† ,, (,,) *new g.*	,, ,, ,,	8	1	0	1149	945	37·22	..
D†Slaithwaite (Blackmoorfoot)	,, ,, ,,	8	1	0	800	1087	42·78	234
D ,, (Inglewood)	J. Woodhead, Esq.,	5	1	0	546	1121	44·15	224
D Huddersfield (Carr End,Dalton)	Miss A. Robson	8	1	0	350	759	29·89	196
,, (Bank Field,Golcar)	J. R. Sykes, Esq.	5	1	0	400	919	36·19	174
D ,, (Cemetery)	Mr. J. Firth	8	1	0	410	869	34·23	190
D ,, (Oakes,Longwood)	S. Morris Bower, Esq.	6	5	0	775	824	32·46	160
D ,, (,, ,,)	,, ,, ,,	5	1	8	772	799	31·44	161
D†RishworthMoor(G.WaldenEdge)	C.ClemeshaSmithEsq C.E.	5	0	10	1135	1125	44·29	188
D ,, (Stott Hall)	,, ,, ,,	5	1	0	935	951	37·45	225
D† ,, (Ringstone Res.)	,, ,, ,,	5	1	0	990	968	38·13	201
,, Moor(Greystones)	,, ,, ,,	5	1	0	1175	1198	47·17	..
Soyland Moor (Summit)	,, ,, ,,	5	1	0	1290	964	37·97	..
D ,, ,, (Baitings Gate)	,, ,, ,,	5	1	0	935	1242	48·90	226
,, ,, (Manshead)	,, ,, ,,	5	1	0	1240	1114	43·86	..
Horbury (Highfields)	J. H. Green, Esq.	5	1	0	226	571	22·50	..
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq.	8	1	2	200	799	31·45	187
D Wakefield	Dr. H. Maclean Wilson	8	1	0	174	553	21·77	169
D ,, (Clarence Park)	C.ClemeshaSmithEsq.C.E	5	1	0	124	603	23·75	178
Elland	P.H.Whitwam, Esq.	8	1	0	307	880	34·65	189
Sowerby Bridge (Triangle)	Mrs.MacDougall Rawson	8	1	0	500	947	37·29	..
D ,, ,, (Millhouse)	,, ,, ,,	6	0	8	400	1009	39·71	191
D† ,, ,, (HaughEnd)No.4	J. Selwyn Rawson,Esq.	5	0	8	450	997	39·25	197
D Walsden (Ramsden Reservoir)	F. H. Brunt, Esq., C.E.	8	1	0	993	1183	46·59	186
,, (,, Hill)	,, ,, ,,	5	1	0	1326	1105	*43·50*	..
D ,, (Birks House)	J. P. Cockcroft, Esq.	5	1	0	550	1225	48·25	233
D Todmorden (Fielden Hospital)	Mr. F. Rogers	5	1	0	650	914	36·00	183
D ,, (Sourhall Hospital)	,, ,,	5	1	0	1020	1260	49·59	195

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	WEST RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	8.—*OUSE—Aire—Calder*—(*con.*)								
D	Halifax (Hall Ings, S. Owram)	Rev. G. E. Aspinall	5	0	7	750	699	27·52	206
D†	,, (Public Library)	E. Green, Esq.	8	1	0	625	838	33·01	171
D	Batley (Staincliffe Reservoir)	J.C.Barrowclough,Esq.C.E.	5	1	0	492	612	24·11	164
D	,, (Woodwell Depôt)	O. J. Kirby, Esq., C.E.	8	1	0	301	556	21·88	164
†	Ardsley Reservoir *No. 1*	C.ClemeshaSmithEsq.C.E.	5	1	2	395	593	23·33	..
D	,, ,, *No. 2*	,, ,, ,,	5	1	2	326	610	24·01	183
D†	,, (Jaw Hill Filters)	,, ,, ,,	5	1	0	315	584	22·99	170
D	Castleford School	S. Gee Esq.	5	1	0	100	500	19·70	137
D	Cleckheaton(Whitcliffe Mt. Sch)	Walton Cliffe, Esq.	5	1	0	430	735	28·94	181
	Halifax W.W. (Albert)	R. J. Hartley, Esq., C.E.	5	1	0	795	849	33·42	..
	,, ,, (Gibbet)	,, ,, ,,	5	3	9	568	897	35·30	..
	,, ,, (Ramsden Wood)	,, ,, ,,	8	1	2	816	811	31·95	..
	Hebden Bridge (Falling Royd)	A. R. Crossley, Esq.	4	1	0	479	1107	43·59	203
D	,, ,, (Summerfield)	J. Hoyle, Esq.	5	1	0	800	971	38·24	208
	,, ,, (Burnside)	,, ,,	5	1	0	825	979	38·55	..
	HalifaxW.W.(CastleCarrLdge.)	R. J. Hartley, Esq., C.E.	5	0	6	1060	831	32·73	..
	,, ,, (Midgley Moor) M	,, ,, ,,	8	0	9	1350	906	35·67	..
	,, ,, (Warley Moor) M	,, ,, ,,	8	1	2	1325	837	32·96	..
	,, ,, (Ogden) M	,, ,, ,,	5	0	10	990	935	36·82	..
	,, ,, (Ovenden Moor) M	,, ,, ,,	8	0	9	1375	1119	44·05	..
	,, ,, (Widdop) M	,, ,, ,,	5	1	3	1050	1069	42·08	..
	,, ,,(WalshawDeanLodge)	,, ,, ,,	5	1	0	1040	1070	42·11	..
	,, ,,(,, ,,).. M	,, ,, ,,	8	1	0	1380	1060	41·75	..
	9.—*OUSE—Aire.* 504 *sq. mi.*								
	Pontefract (Tanshelf Drive)	T. K. Heseltine, Esq.	5	1	0	180	543	21·37	..
	Pudsey (Fulneck)	Miss E. C. Lawford	5	1	0	490	825	32·47	..
D	Garforth (Manor Farm)	Prof. R. S. Seton	8	1	2	194	573	22·57	171
	Bradford (Grange Road,Horton)	Mr. A. E. Chilton	5	3	0	450	828	32·60	203
	,, (Queensbury)	R. J. Foster, Esq.	8	2	2	1050	885	34·83	186
	,, (Brayshaw Reservoir)	J. Watson, Esq., C.E.	5	1	0	982	870	34·26	186
D	,, (Lister Park)	Mr. H. Lander	8	1	0	440	816	32·13	193
	,, (ThorntonMoorFilters)	J. Watson, Esq., C.E.	5	1	0	1218	945	37·20	224
	,, (Stubden Res.)No.8A.	,, ,, ,,	8	1	0	1075	1138	44·80	210
	,, (,, ,,)No.8B.	,, ,, ,,	8	1	0	1075	1073	42·23	..
	,, (,, ,,)..No. 8	,, ,, ,,	5	1	0	1071	1056	41·58	210
	,, (Nan Scar,OxenhopeM	,, ,, ,,	5	1	0	1101	1108	43·61	..
	,, (Stairs Top, ,,) M	,, ,, ,,	5	1	0	1401	1049	41·31	..
	,, (LeemingReservoir) M	,, ,, ,,	5	1	0	850	790	31·12	215
	,, (Doe Park Reservoir)	,, ,, ,,	8	1	0	810	1014	39·91	191
	,, (,, ,, ,,)	,, ,, ,,	5	1	0	811	943	37·13	192
	,, (Leeshaw Res.) .. M	,, ,, ,,	5	1	0	875	1108	43·62	..
	,, (Chellow Dean Res.)	,, ,, ,,	5	1	0	645	892	35·13	210
	,, (,, HeightsRes.)	,, ,, ,,	5	1	0	848	840	33·08	206
	,, (Hewenden Res.)*old g.*	,, ,, ,,	5	1	0	700	965	38·01	206
	,, (,, ,,)*new g*	,, ,, ,,	5	1	0	701	948	37·33	206
	,, (Heaton Reservoir)	,, ,, ,,	8	1	0	530	821	32·33	195
	,, (,, ,,)	,, ,, ,,	5	1	3	531	794	31·28	195
	Leeds (Wortley Reservoir)	C. G. Henzell, Esq.,C.E.	8	0	9	307	658	25·92	184
	,, (Knostrop)	,, ,, ,,	8	0	9	72	531	20·90	..
	,, (Holbeck W.W. Depôt)	,, ,, ,,	8	0	9	93	609	23·98	189

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	WEST RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	9.—*OUSE—Aire—(con.)*								
	Leeds (Great George Street)	C. G. Henzell, Esq., C.E.	5	0	9	180	572	22·53	178
D	,, (Museum)	H. Crowther, Esq.	10	46	0	177	602	23·69	156
	,, (Woodhouse Moor)	C. G. Henzell, Esq., C.E.	8	0	9	307	637	25·07	178
	,, (WeetwoodRes.) ..No.1	,, ,, ,,	8	0	9	328	610	24·03	186
	,, (,, ,,) ..No.2	,, ,, ,,	8	0	9	328	602	23·68	186
	,, (Gledhow Grove)	F. J. Kitson, Esq.	5	2	0	290	625	24·62	150
	,, (Allerton Hill)	T.HardingChurton,Esq.	5	0	7	418	602	23·70	..
	Shipley (Cragg End)	Leeds&L'pool Canal Co.	8	1	0	304	775	30·51	..
D	,, (Glenholme)	M. E. Burton, Esq.	5	0	9	370	826	32·52	191
D	Haworth (Harbour Lodge)	M. R.Barnett,Esq.,C.E.	8	1	0	1187	1246	49·06	206
D	,, (LowerLaitheRes.)	,, ,, ,,	5	0	10	772	1102	43·38	223
D	,, (,, ,, ,,) (R)	,, ,, ,,	6	1	7	772	1104	43·45	220
D	Oakworth (Oldfield Filters)	,, ,, ,,	5	1	0	1008	976	38·42	202
	Bingley (Oakwood)	H. A. Garnett Esq.	5	1	0	525	779	30·66	..
	,, (Gilstead Filters)	J. Watson, Esq., C.E.	5	1	0	572	752	29·59	175
D	Adel (Lawns Wood Cemetery)	Mr. S. R. Dyson	5	1	0	475	766	30·17	221
D	Keighley (The Knowle)	P. Clough, Esq.	5	1	0	385	821	32·31	195
	,, (Victoria Park)	Mr. R. Butterfield	5	1	0	305	808	31·82	183
	Bingley (SunnydaleReservoir)	J. Watson, Esq., C.E.	5	1	0	825	751	29·56	204
D	Salterforth(Barnoldswick W.W.)	J. W. Thompson, Esq.	8	1	4	832	1184	46·61	182
D	Kelbrook (HigherBurntHillFm.)	J. E. Aldersley, Esq.	8	1	0	1050	877	34·51	180
D	Earby (Sewage Works)	,, ,, ,,	8	1	0	425	899	35·40	182
D	,, (,, ,,)	,, ,, ,,	5	1	9	426	887	34·91	182
D	Silsden (Bolton Road)	Mr. A. Elder	5	1	0	432	747	29·40	170
	,, (Gill Grange)	J. Watson, Esq., C.E.	5	1	0	883	710	27·95	..
	,, Reservoir	,, ,, ,,	5	1	0	560	715	28·15	173
	,, (CringlesReservoirSite)	,, ,, ,,	5	1	0	760	755	29·74	169
D	Elslack (Moorside Farm)	J. W. Thompson, Esq.	5	0	7	835	1040	40·95	203
	Carleton (Beech Hill)	W.Cyril Empson, Esq.	8	5	3	425	891	35·10	..
D	Skipton (Sewage Works)	F. Morrison, Esq.	8	0	9	315	848	33·38	174
D†	,, (Town Hall) (R)	A.E.W.Aldridge, Esq.	6	1	6	367	802	31·59	174
	,, (Hawthorne Cottage)	Leeds &L'pool Canal Co.	8	1	0	380	760	29·94	..
	Gargrave(BanksHillBankN'wtn)	,, ,, ,,	8	1	0	545	863	33·99	..
	,, (Ray Bridge Hill)	,, ,, ,,	8	0	10	459	578	22·75?	..
D	Skipton (Embsay Moor Res.)	A. E. W. Aldridge, Esq.	8	1	3	670	795	31·29	187
	Rylstone Rectory	Rev. C. H. Lowe	5	0	7	708	946	37·25	199
	Winterburn (Long Hill)	Leeds & L'pool Canal Co.	8	0	9	705	976	38·44	..
	,, (Brown Hill)	,, ,, ,,	8	1	0	961	1022	40·25	..
D†	Malham Tarn	Mr. John Winskill	8	1	0	1296	1354	53·30	226
D†	,, ,,	,, ,, ,,	5	1	0	1296	1378	54·25	226
	10.—*OUSE—Wharfe.* 408 *sq. mi.*								
D	Aberford (Lotherton Hall) (R)	Mrs. Trench Gascoigne	8	1	0	200	521	20·51	154
D	Saxton Vicarage	Rev. C. D. Ash	5	1	6	95	616	24·24	177
	Adel (Eccup, South)	C. G. Henzell, Esq., C.E.	8	0	9	390	654	25·76	193
	,, (,, East)	,, ,, ,,	8	0	9	375	710	27·96	194
	Tadcaster (Grammar School)	G. Hillarby, Esq.	5	0	4	26	585	23·05	..
	Bardsey Pumping Station	M. C. Wood, Esq.	5	2	6	250	628	24·72	150
	Harewood (Arthington)	C. G. Henzell, Esq., C.E.	8	0	9	139	868	34·16	166
	,, House	Countess of Harewood	5	0	10	300	670	26·38	..
D	Menston	W. Daniel, Esq.	5	1	6	550	821	32·33	172

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
WEST RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
10.—*OUSE—Wharfe*—(*con.*)								
Otley (Sewage Works)	T. E. Davies, Esq.	5	1	0	172	659	25·95	..
D†Ilkley (Glen Rosa)	F. A. Aykroyd, Esq.	8	1	1	450	1018	40·07	150
D† ,, (St. James' Road)	Miss F. Brown	5	1	0	325	881	34·68	154
D ,, (Spence's Garden)	H. West, Esq.	5	1	0	314	969	38·17	174
Wetherby (Park Hill)	WBridgemanSimpsonEsq	5	1	4	170	648	25·50	169
Leathley (Lindley Wood, S.)	C. G. Henzell, Esq., C.E.	8	0	9	312	782	30·80	210
,, (,, ,, N.)	,, ,, ,,	8	0	9	320	782	30·79	210
D Ilkley (March Gill Reservoir)	T. E. Davies, Esq.	5	1	0	655	883	34·77	151
D†York (Mount Villas)	Mrs. Rowntree	5	1	0	70	660	25·99	209
† ,, (Cherry Hill)	Mssrs.H.Richardson&Co.	5	1	6	50	584	22·99	*156*
† ,, (Museum Gardens)	*Yorkshire Herald*	9	1	0	57	557	21·94	176
D ,, (The Retreat)	Dr. H. J. Mackenzie	5	1	0	74	598	23·56	181
,, (Acomb Landing)	W. H. Humphreys, Esq.	5	1	0	40	587	23·10	171
Skipton (Counter Hill)	M J. Watson, Esq., C.E.	5	1	0	951	744	29·29	..
,, (Chelker Reservoir)	M ,, ,, ,,	5	1	0	730	879	34·59	..
Fewston (Timble Ings)	C. G. Henzell, Esq., C.E.	8	0	9	912	860	33·87	200
,, (,,)	,, ,, ,,	8	0	9	720	786	30·95	208
,, (Swinsty, E.)	,, ,, ,,	8	0	9	460	838	33·00	212
,, (,, W.)	,, ,, ,,	8	0	9	425	841	33·11	212
,, South	,, ,, ,,	8	0	9	525	866	34·09	207
,, North	,, ,, ,,	8	0	9	525	805	31·68	207
,, (Blubberhouses)	,, ,, ,,	8	0	9	575	899	35·38	204
Bolton Abbey Estate Office	A. Downs, Esq.	5	1	2	368	921	36·25	202
Barden Reservoir	J. Watson, Esq., C.E.	8	1	0	746	995	39·19	235
,, ,,	,, ,, ,,	5	1	0	746	1030	40·56	235
,, ,, Upper	,, ,, ,,	5	1	0	1250	965	37·98	219
Thruscross (Lane Head)	C. G. Henzell, Esq., C.E.	8	0	9	950	696	27·40?	193
Burnsall (Thorpe Fell)	M J. Watson Esq., C.E.	5	1	0	1661	937	36·91	..
,, (Sandbed Beck)	M ,, ,, ,,	5	1	0	676	956	37·64	..
D ,, Rectory	Rev. W. J. Stavert	8	4	7	503	993	39·11	209
Grimwith Reservoir	J. Watson, Esq., C.E.	8	1	0	890	1083	42·63	213
,, ,,	,, ,, ,,	5	1	0	893	1066	41·99	213
,, (Trunla Hill)	,, ,, ,,	5	1	0	1201	971	38·23	..
Hawkswick	M Harold Wager, Esq., F.R.S	5	1	6	650	1365	53·72	..
†Arncliffe Vicarage	Rev. J. B. M. Chaplin	5	1	6	732	1413	55·62	..
Oughtershaw Hall	Miss Woodd	8	1	6	1175	1802	*70·93*	..
11.—*OUSE—Nidd.* 254 *sq. mi.*								
Spofforth (Sewage Works)	C. E. Rivers, Esq., C.E.	5	1	0	184	662	26·05	177
Wetherby (Ribston Hall)	Mr. W. Simpson	5	1	2	130	628	24·74	..
HarrogateW.W.(Ling Cottage)	A. S. West, Esq., C.E.	5	1	0	740	718	28·26	..
,, ,, (Broad Dubb)	,, ,, ,,	5	1	0	725	745	29·33	..
,, ,, (CobblersCottage)	M ,, ,, ,,	5	1	0	730	750	29·54	..
,, ,, (Ten Acres Res.)	,, ,, ,,	8	1	6	620	737	29·02	182
D ,, ,, (Scargill Res.)	,, ,, ,,	8	1	0	646	815	32·07	185
,, ,, (BeaverDykeRes.)	,, ,, ,,	8	0	11	575	796	31·36	181
,, ,, (John o' Gaunts)	M ,, ,, ,,	5	1	0	600	734	28·90	..
,, ,, (Long Stoop)	M ,, ,, ,,	5	1	0	700	749	29·50	..
,, ,, (Knab's Moor)	M ,, ,, ,,	5	1	0	700	745	29·34	..
D ,, (Harlow Moor Obsy.)	C. E. Rivers, Esq., C.E.	5	1	0	480	793	31·22	191
,, (,, Hill Res.)	A. S. West, Esq., C.E.	8	1	0	589	652	25·66	158

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	WEST RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	11.—*OUSE—Nidd*—(*con.*)								
	Harrogate(Irongate BridgeRes.)	A. S. West, Esq., C.E.	8	1	6	455	757	29·80	179
D	,, (The Stray)	Mr. G. W. Gledhill	5	1	0	380	754	29·67	185
D	,, (Park Parade)	,, ,, ,,	5	1	0	400	781	30·74	185
	Knaresborough (Water Tower)	A. S. West, Esq., C.E.	8	1	0	240	675	26·57	172
D	,, (Grammar Sch.)	C. W. H. Greaves, Esq.	5	1	0	230	660	25·98	178
	Harrogate(BiltonSewageWorks)	C. E. Rivers, Esq., C.E.	5	1	0	208	707	27·83	173
D	Birstwith (Swarcliffe)	Lt.Col.C.S.Greenwood	5	1	0	510	823	32·39	182
D	Greenhow Hill (Keld House)	Harold Bruff, Esq., C.E.	5	1	0	1302	1063	41·84	213
	Ramsgill(HolmeHo.Gouthwaite)	J. Watson, Esq., C.E.	5	1	0	464	994	39·15	196
	,, (Raygill House)	,, ,, ,,	5	1	0	925	1008	39·70	168
	,,	,, ,, ,,	5	1	0	450	791	31·14	157
	Nidderdale (High Riggs)	,, ,, ,,	5	1	0	1010	991	39·03	..
	,, (East Gill Head) M	,, ,, ,,	5	1	0	1710	1481	58·29	..
	,, (Rain Stang) ...M	,, ,, ,,	5	1	0	1470	1117	43·99	..
	,, (New Houses)	,, ,, ,,	5	1	0	755	996	39·23	163
	,, (West Houses)	,, ,, ,,	5	1	0	1150	1223	48·16	204
	12.—*OUSE—Ure.* 110 *sq. mi.*								
†	Dallow Moor (Harper Hill)	C. G. Henzell, Esq., C.E.	5	0	9	858	763	30·03	185
D	Ripon (StudleyRoyalGardens)	Marquis of Ripon	5	1	6	250	721	28·39	178
D	,, (The Red House)	F. D. Wise, Esq.	5	1	0	120	670	26·39	161
†	Kirbky Malzeard (Drovers'Inn)	C. G, Henzell, Esq., C.E.	8	0	9	576	918	36·15	212
†	,, ,, (Hawset)	,, ,, ,,	8	0	9	820	852	33·55	194
†	,, ,, (BagwithBrae)	,, ,, ,,	5	0	9	703	795	31·31	194
	,, ,, (Stone&EarsWham)	,, ,, ,,	8	0	9	1118	963	37·91	..
	EAST RIDING. (Area, 1176 sq. mi.)								
	1.—*OUSE—Left Bank Tributaries.* 82 sq. *mi.*								
	Deighton Grove [York]	Miss M. L. Whitehead	5	2	0	47	573	22·56	143
D	Heslington [,,]	HnLdeYarburgh-Bateson	8	0	7	35	671	26·41	177
	,, Vicarage [York]	Rev. Wilfrid Robinson	5	1	0	35	643	25·33	164
D	Dunnington Hall [,,]	Miss Hildyard	8	1	2	110	600	23·63	196
	2.—*OUSE—Derwent.* 248 *sq. mi.*								
D	Howden	Guy Harris, Esq.	8	0	9	18	522	20·57	172
D	Elvington (The Glenne)	Dr. C. A. Lower	5	1	3	35	588	23·15	191
D	Warter	Mrs. J. Coxon	5	1	10	230	724	28·52	175
D	Burythorpe Rectory	Rev. William Robinson	5	1	0	240	772	30·40	161
D	Birdsall Gardens	Mr. J. Anderson	5	1	3	303	798	31·40	181
D	Malton (The Leat House)	W.R.InnesHopkins,Esq.	5	0	10	60	718	28·26	195
	Hunmanby (Holly Bank)	Miss Ackland	5	1	2	..	582	22·90	..
	3.—*HUMBER—Left Bank Tributaries.* 675 sq. mi.								
	Patrington (Spurn Head)	Meteorological Office	8	1	0	27	504	19·85	157
	,,	Miss H. Kirman	5	2	6	46	528	20·77	..
D	Hull (Pearson Park)	H. B. Witty, Esq.	5	0	10	12	614	24·18	186
D	,, (Springhead)	C. B. Newton, Esq., C.E.	5	1	0	16	630	24·79	202
D	Cottingham (Water Works)	,, ,, ,,	5	1	1	26	597	23·52	157
D	Holme-upon-Spalding-Moor	C. J. Pybus, Esq.	8	1	0	35	613	24·15	176
	Beverley (East Riding Asylm.)	Dr. M. A. Archdale	5	1	0	175	589	23·20	167
	,, (New Walk)	W. Evans, Esq., C.E.	5	3	0	38	668	26·30	198
	,, (Hull Bridge)	,, ,, ,,	5	2	6	11	606	23·86	181

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	EAST RIDING—(*con.*)								
	3.—*HUMBER—Left Bank Tributaries—*(*con.*)								
D	Market Weighton (Dalton Holme)	Mr. J. P. Jobling	8	6	0	150	660	25·99	186
	,, ,, (Cleaving Grange)	George Cobb, Esq.	5	1	6	150	664	26·14	193
D	Watton Abbey	J. A. Coulson, Esq.	5	1	6	40	588	23·15	169
	Brandesburton (Hempholm Lk.)	W. Evans, Esq., C.E.	5	2	6	11	596	23·46	190
	Driffield (York Road)	W. E. Lovel, Esq.	5	1	0	76	597	23·50	141
D	Lowthorpe (The Elms)	F. K. Hawes, Esq.	5	1	0	63	624	24·56	178
	4.—*EAST COAST STREAMS.* 171 *sq. mi.*								
D	Bridlington	S. R. Crofts, Esq.	5	1	0	59	578	22·77	195
	,,	Meteorological Office	..		..	56	486	19·14?	146
D	Helperthorpe (West Farm)	H. D. Birdsall, Esq.	5	1	0	250	756	29·76	192
D	Filey	A. V. Machin, Esq.	5	0	8	44	539	*21·21*	*167*
	NORTH RIDING. (Area, 2155 sq. mi.)								
	1.—*OUSE—Ure.* 273 *sq. mi.*								
†	Masham Moor (Somerside)	C. G. Henzell, Esq., C.E.	5	0	9	928	922	36·31	191
†	,, ,, (High Sour Mire)	,, ,, ,,	5	0	9	884	786	30·94	..
	,, ,, (Leighton Res.)	,, ,, ,,	5	0	9	634	839	33·04	207
	,, ,, (Towler Hill)	,, ,, ,,	8	0	9	820	850	33·46	201
†	,, ,, (Breary Bank)	,, ,, ,,	5	0	9	600	846	33·30	198
	,, ,, (Healey)	,, ,, ,,	5	0	9	542	822	32·36	179
†	,, ,, (Low Houses)	,, ,, ,,	5	0	9	693	893	35·14	215
D	,, ,, (Roundhill Res.)	A. S. West, Esq., C.E.	8	1	0	743	855	33·66	193
D	Clifton Castle Gardens	Lady Cowell	5	1	0	360	728	28·65	140
D	Middleham (Castle Hill)	Col. P. H. Hammond	5	1	0	470	735	28·94	183
D	,, (The Deanery)	Rev. H. G. Topham	5	1	0	450	706	27·79	165
D	West Witton (Ivy House)	J. B. Espiner, Esq.	5	1	0	606	780	30·70	204
D	Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1	0	420	766	30·17	213
	Hawes (The Stone House)	H. Arden Crallan, Esq.	5	1	6	845	1175	46·27	198
	2.—*OUSE—Swale.* 569 *sq. mi.*								
	Husthwaite Vicarage	Rev. G. Gill	5	1	0	282	645	25·40	..
	Sessay Rectory	Rev. F. Payne Gallwey	5	1	0	113	627	24·68	154
D	Dalton Parsonage	Rev. G. H. Chilman	5	1	0	79	555	21·84	153
D	Carlton Husthwaite	W. R. Bagley, Esq.	5	1	0	190	672	26·45	178
	Coxwold (The Old Hall)	H. Geipel, Esq.	5	1	6	260	675	26·57	..
D	Baldersby (Baldersby Park)	Mr. J. E. Hathaway	10	2	0	100	543	21·37	189
D	Thirsk (Spital Hill)	C. H. Gill, Esq.	5	1	0	117	611	24·06	187
	,, (Sowerby)	William Brown, Esq.	5	1	0	110	629	24·75	..
D	,, (Carlton Miniott)	J. G. Milner, Esq.	5	1	0	90	632	24·87	152
D	,, (Brynkellhow)	A. B. Hall, Esq.	8	1	0	115	619	24·38	172
D	,, (The Hall)	Reginald Bell, Esq.	5	1	10	121	587	23·11	165
	Sutton (Brook House)	F. R. Hansell, Esq.	5	1	0	246	624	24·56	..
D	,, Hall Gardens	Mr. J. H. Clements	5	1	0	245	770	30·30	186
D	Thirsk (Stoneybrough)	T. J. Foggitt, Esq.	5	1	2	122	642	25·29	170
	Felixkirk (Thirlby)	A. J. Walker, Esq.	5	1	0	339	770	30·30	..
D	,, (Mount St. John)	,, ,, ,,	5	1	0	523	704	27·73	187
D	,, (,, ,, ,,)	,, ,, ,,	5	1	0	542	708	27·88	187
	,, (,, ,, ,,) M	,, ,, ,,	5	1	10	542	683	26·88	..
D	Boltby (Ravensthorpe Manor)	F. E. Walker, Esq.	5	1	7	661	773	30·44	180
	,, (Cliff Head)..No. 2 M	A. J. Walker, Esq.	5	1	4	772	665	26·17	..

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	NORTH RIDING—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*OUSE—Swale*—(*con.*)								
	Boltby (High Paradise) M	A. J. Walker, Esq.	5	1	3	1144	822	32·35	..
	Kirkby Knowle Rectory	Rev. C. H. Murray	5	1	0	436	689	27·12	..
D	Bedale (Burneston Vicarage)	Rev. Canon J. T. Hartley	5	1	0	110	658	25·90	157
	,, (Thorpe Perrow)	Mr. W. Pattison	5	1	6	140	676	26·63	181
	Maunby Hall	Maj. A. Hill-Walker	5	1	0	90	690	27·18	..
	Bedale (Park House)	Miss M. Greenwood	5	1	1	180	662	26·07	157
	Newby Wiske	H. Rutson, Esq.	5	0	10	105	661	26·02	150
D	Thornton-le-Moor	Lt.-Col. R.W.Peckitt	5	1	0	136	663	26·11	162
D	,, ,, ,, (Pasture Ho.)	G. H. Croft, Esq.	5	1	0	225	654	25·74	176
	North Otterington (Sowbergate)	J. Hutton, Esq.	5	1	2	100	626	24·63	167
D	Kepwick Vicarage	Rev. T. E. Parkinson	5	1	0	530	709	27·93	140
	Scruton Hall	Rev. A. T. Coore	5	1	6	110	594	23·38	163
	Swaledale (Gunnerside Lodge)	W. M. Christy, Esq.	5	1	0	950	1106	43·56	..
	Northallerton (Brompton)	J. P. Yeoman, Esq.	5	0	6	160	613	24·15	..
D	,, (Osmotherley)	T. Yeoman, Esq.	8	0	8	660	781	30·76	170
D	,, ((Harlsey Hall)	J. Constantine, Esq.	5	1	0	370	634	24·95	157
D	Rounton Grange	Mr. J. Hanagan	8	1	0	249	608	23·92	200
D	Richmond (Sedbury Park)	G. Gilpin Brown, Esq.	5	1	0	450	712	28·03	192
	,, (Gilling West)	G. Roper, Esq.	5	1	3	303	830	32·69	162
	Middleton Tyas	J. F. B. Baker, Esq.	5	0	10	380	577	22·70	..
	3.—*OUSE—Left Bank Tributaries.* 153 *sq. mi.*								
	Haxby (Moorlands) (R)	E. G. Tew, Esq.	8	0	8	58	744	29·29	..
	4.—*OUSE—Derwent.* 509 *sq. mi.*								
	Huttons Ambo (Minster Hill)	J. W. Procter, Esq.	5	1	3	75	593	23·36	..
	Terrington Hall	Mr. T. Suffield	5	1	5	300	662	26·07	160
D	Malton (Broughton Rise)	C. C. Laverack, Esq.	5	1	0	164	691	27·21	179
	Hovington Hall	SirW.H.A.Worsley, Bt.	5	0	6	120	713	28·07	189
	Ampleforth Abbey	RevH.deNormanvilleOSB	8	1	0	351	664	26·15	189
	Helmsley (DuncombePk.Gdns.)	Mr. D. Williams	5	3	0	176	733	28·87	..
D	Pickering (Hungate Hall)	Dr. J. L. Kirk	5	1	0	90	801	31·53	207
D	Seamer (Irton Pump.Station)	W. Millhouse,Esq., C.E.	8	1	0	94	761	29·95	205
D	Scarborough (Osgodby)	,, ,, ,,	8	1	0	166	624	24·56	154
	East Ayton (Derwent House)	A. H. Robinson, Esq.	5	1	0	110	708	27·88	177
D	,, Lodge	Rev. R. Walker	5	0	6	175	727	28·63	176
D	Hawnby Rectory	Rev. W. Hughes	5	1	0	497	970	38·21	179
	Bransdale *weekly*	Rev. H. W. Smith	5	1	0	800	867	34·12	..
D	Bilsdale Priory	Rev. J. Powell Parry	5	0	6	638	925	36·41	194
	5.—*ESK & C.* 278 *sq. mi.*								
D	Scarborough	W.W.Larkin, Esq.	5	1	0	105	694	27·31	181
D	,, (Scalby)	Mrs. J. W. Rowntree	5	0	11	300	847	33·33	157
D	,, (,, St.Philips)	Rev. W. E. Stewart	5	1	0	130	729	28·71	187
	Goathland (Thwaitefield)	Lewis G.Rowland, Esq.	5	0	6	485	802	31·59	..
	Glaisdale(The GablesGardens)	Mr. H. Hope	5	0	9	400	924	36·38	..
	Danby Parsonage	Rev. G. Bird	5	1	1	500	853	33·57	..
D	Sleights (Carr Hill)	E. Isle Hubbard, Esq.	5	1	0	150	710	*27·94*	*173*
D	Whitby (Park Hall, Aislaby)	Rev. J. H. Richardson	5	1	0	500	758	29·83	185
D	,, (Ocean Road)	T. W. Parkinson, Esq.	8	1	0	125	651	25·64	176
D	,, (Mulgrave Castle)	Mr. J. Corbett	5	1	0	410	723	28·46	204
D	Guisborough(LockwoodBeckRes	W. M.I'Anson, Esq.,C.E.	8	1	0	632	774	30·46	165
	,, (,, ,, ,, M	,, ,, ,,	8	1	0	632	746	29·39	..

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	NORTH RIDING—(*con.*)								
	5.—*ESK & C.*—(*con.*)								
D	Skelton-in-Cleveland Rectory	.Rev.H.Mackworth Drake	5	1	0	300	644	25·37	171
D	Saltburn (Skelton Castle)	Lt.Col. W.H.A.Wharton	5	0	9	272	693	27·29	179
	6.—*TEES.* 373 *sq. mi.*								
D	Ingleby Manor	Lord De L'Isle.........	5	0	11	460	843	33·20	169
	,, Greenhow Vicarage ..	Rev. M. A. Horsfall	5	1	6	420	841	33·11	181
D	,, ,, (TheSchoolHouse)	P. Huntington, Esq. ...	5	1	0	430	809	31·84	186
D	Croft (Dalton-on-Tees)	Mr. W. Wrather	8	2	0	170	544	21·43	172
D	Great Ayton (Friend's School) .	H. Dennis, Esq.	5	6	0	300	953	37·53	143
	Hutton Magna Vicarage.......	Rev. A. W. M. Close....	5	0	4	450	792	31·20	161
D	Kildale Hall	Major R. B. Turton	5	1	2	600	927	36·48	195
D	Middlesbrough (Ormesby)	W.StewartTailyour,Esq.	5	1	0	100	679	26·72	190
D	,, (Albert Park)	J. M. Parnaby, Esq. ...	8	1	0	30	684	26·93	181
	Baldersdale (BlacktonRes.) ...	Hugh Wilson, Esq.	5	1	0	935	917	36·10	..
	,, (Balderhead)	M ,, ,, ,, ...	5	1	0	1360	965	38·00	..
D†	,, (Hury Reservoir) .	,, ,, ,, ...	5	1	0	866	780	30·70	179
	Lunedale (Lunehead)	M ,, ,, ,, ...	5	1	0	1450	1346	53·00	..
	,, (Selset)	M ,, ,, ,, ...	5	1	0	924	914	36·00	..
D†	,, (GrassholmeRes.) ...	,, ,, ,, ...	5	1	0	936	945	37·19	179
	†Mickleton(LimeKilnPasture)	MMr. J. Harvey	8	1	0	1175	719	28·30	..

DIVISION X.—NORTHERN COUNTIES.

	DURHAM. (Area, 1011 sq. mi.)								
	1.—*TEES & C.* 396 *sq. mi.*								
D	Darlington (Cleveland Parade)	Miss Willmott	5	1	3	160	580	22·82	189
	,, (Hummersknott) ..	Mr. J. Short	5	1	0	200	572	22·52	..
	Piercebridge (Carlbury Hall) ..	J. H. Pease, Esq.	5	1	0	235	596	23·45	..
D	,, (,, ,,) .	,, ,, ,, ...	5	1	0	222	594	23·39	185
D†	Barnard Castle(County School).	R. C. Hitchcock, Esq. ..	5	1	6	540	727	28·62	181
D	Stockton (Ropner Park).......	W. A. Jenkins, Esq. ...	5	1	9	61	580	22·82	152
D	Sedgefield (Hardwick Hall)....	Viscountess Boyne	5	0	3	400	677	26·65	185
D	Hurworth Burn (Crookfoot Res)	A. W. Branson, Esq., C.E.	10	1	6	293	634	24·96	183
D	West Hartlepool (Lynn Street).	Mr. H. Lamb	5	65	0	84	732	28·84	164
	,, ,, (WaterWorks)	A.W.Branson,Esq.,C.E.	10	1	0	35	598	23·55	..
D	Hurworth Burn Reservoir	,, ,, ,, ..	10	1	0	357	619	24·36	195
D	Hartlepool (Hart Reservoir) ...	,, ,, ,, ..	10	1	0	172	573	22·57	160
D	Seaham (Dalton Pumping Sta.)	A.B.E.Blackburn,Esq. .	8	1	0	345	705	27·74	184
	2.—*WEAR.* 464 *sq. mi.*								
	Wolsingham (Dryderdale)	Mr. G. Cranston	5	1	0	700	795	31·29	159
D	Willington Rectory	Rev. Canon T. Urmson .	5	1	0	285	692	27·25	155
	Brancepeth Castle	Mr. J. Thomson........	5	0	6	341	741	29·17	..
D	Wolsingham (Croft House) ...	H. Stobbs, Esq.	5	1	0	464	776	30·57	150
	Stanhope(ParsonByer'sQuarry)	Messrs. Bell, Bros., Ltd..	5	6	8	846	799	31·47	..
	Wearhead Station	Mr. R. Rust	5	0	6	1104	1126	44·31	*183*
	Durham Observatory	F.CHCarpenterEq.,*pr*M.O.	12	4	0	336	661	26·02	182
D	Durham (Pelaw Terrace)	Henry Palmer, Esq. ..	5	1	0	154	713	28·06	156
	Ushaw (St. Cuthbert's College)	Rev. A. Forkin	5	0	9	596	950	37·39	164
	Pittington (Elemore Hall)	Miss Baker Baker	8	0	6	323	702	27·64	..

DIVISION X.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
DURHAM—(*con.*) 2.—*WEAR*—(*con.*)		in.	ft.	in.	feet	mm.	inches	
D Weardale W.W. TunstallRes.)	R. Askwith, Esq., C.E.	8	1	2	724	852	33·56	158
,, ,, (Waskerley 6)	,, ,, ,,	8	4	2	1229	633	24·92	..
,, ,, (,, 3)	,, ,, ,,	8	4	6	1433	679	26·75	..
,, ,, (,, 4)	,, ,, ,,	8	4	7	1321	597	23·50	..
,, ,, (,, 5)	,, ,, ,,	8	4	2	1244	660	26·00	..
D ,, ,, (,,)	,, ,, ,,	8	0	11	1179	832	32·76	194
,, ,, (,, 2)	,, ,, ,,	8	4	5	1367	612	24·11	..
,, ,, (,, 1)	,, ,, ,,	8	4	4	1317	619	24·39	..
Chester-le-Street (Biddick Hall)	Mr. A. Bentley	5	1	0	150	713	28·06	..
D Ryhope Pumping Station	A. B. E. Blackburn, Esq.	8	1	1	228	617	24·29	175
D† Sunderland(W.HendonHo.)No.5	T. W. Backhouse, Esq.	5	1	0	130	694	27·32	191
† ,, (,, ,, ,,) No. 6	,, ,, ,,	5	1	0	130	695	27·38	191
D ,, (Mowbray Park)	H. Renney, Esq., M.D.	5	1	0	105	695	27·35	170
D ,, (Claxheugh Grove)	Ford Paper Works, Ltd.	5	2	6	90	632	24·89	161
,, (The Cedars)	W. F. Vint, Esq.	5	1	0	115	664	26·14	170
,, (Southwick Cemet'y)	Mr. J. R. Hodgson	8	1	0	171	720	28·36	164
3.—*TYNE, LOWER.* 151 *sq. mi.*								
D Weardale W.W.(SmiddyShaw)	R. Askwith, C. E.	8	1	3	1128	961	37·83	201
Consett Park Farm	J. D. Brown, Esq.	5	4	3	641	716	28·19	..
Rowlands Gill (Armstrong Coll.)	J.F.Annand,Esq.*per*M.O.	8	1	0	445	850	33·47	164
Gateshead (Low Fell)	*Newcastle Chronicle*	5	1	0	..	702	27·63	..
D Sunderland (CleadonPump.Stn.)	A.B.E.Blackburn, Esq.	8	1	0	216	640	25·20	184
D Ryton-on-Tyne (Balgonie Ho.)	J. W. Smith, Esq.,M.D.	5	1	6	258	786	30·96	144
D South Shields (Bent's Park)	Dr. D. M. Mathieson	5	1	0	36	711	27·99	164
NORTHUMBERLAND. (Area, 2015 sq. mi.)								
1.—*EDEN.* 20 *sq. mi.*								
2.—*SOUTH TYNE.* 232 *sq. mi.*								
Allenheads	J. W. Metcalfe, Esq.	8	1	0	1353	1143	45·00	..
Bardon Mill (Allans Green)	J. B. Lowe, Esq.,*per*M.O.	5	2	0	1000	672	26·50	..
D Haltwhistle (Bellister Castle)	J. M. Clark, Esq.	5	1	0	380	877	34·54	157
3.—*TYNE, LOWER.* 227 *sq. mi.*								
D Corbridge (Howden Dene)	J. H. Straker, Esq.	5	0	9	200	742	29·21	188
D Hexham (Beaufront Castle)	Capt.J.H.Cuthbert,D.S.O.	8	1	0	400	729	28·71	161
Newcastle (Lit. and Phil. Soc.)	H. Richardson, Esq.	8	55	0	160	833	32·79	..
,, (Westgate Street)	*Newcastle Chronicle*	8	30	0	148	724	28·49	157
,, (Leazes Park)	F. J. Morgan, Esq.	5	1	0	255	723	28·45	..
D ,, (Town Moor)	D. C. Baldie, Esq.	5	2	0	201	719	28·29	191
,, (Wellburn, Jesmond)	J. H. Holmes, Esq.	5	1	6	163	778	30·62	194
D Tynemouth (Tyne Pier Works)	R. F. Hindmarsh, Esq.	5	1	8	65	729	28·70	193
,, (Coastguard Statn.)	Meteorological Office	8	1	0	71	576	22·68	155
Whittle Dean(NewcastleW.W.)	A. L. Forster, Esq., C.E.	5	0	6	380	686	27·00	209
,, ,, Filters(,, ,,)	,, ,, ,,	5	1	1	353	715	28·17	195
4.—*NORTH TYNE.* 433 *sq. mi.*								
N.Tyne (G. Crag) (N'castleWW)	A. L. Forster, Esq., C.E.	5	1	6	896	689	27·12	..
Hallington Village (,, ,,)	,, ,, ,,	5	1	0	467	760	29·91	..
,, Reservoirs (,, ,,)	,, ,, ,,	5	1	0	470	724	28·51	195
,, (Fawcett) (,, ,,)	,, ,, ,,	5	1	2	537	675	26·58	..
,, (Cheviot) (,, ,,)	,, ,, ,,	5	1	2	576	648	25·51	..
Camphill (,, ,,)	,, ,, ,,	5	1	1	650	727	28·61	..

DIVISION X.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
NORTHUMBERLAND—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*m.m*	*inches*	
4.—*NORTH TYNE*—(*con.*)								
Colt Crag (Newcastle W.W.)	A. L. Forster, Esq., C.E.	5	1	0	654	666	26·23	190
D Bellingham (High Green Man.)	Sir C. Morrison-Bell, Bt.	5	1	0	849	862	33·94	210
D Otterburn Tower	Howard Pease, Esq.	5	1	2	450	812	31·96	168
,, (Horsley Vicarage)	Miss M. Stephens	5	1	2	700	746	29·36	..
Redewater (Catcleugh)	A. L. Forster, Esq., C.E.	5	1	0	819	1079	42·47	208
5.—*COQUET & C.* 840 *sq. mi.*								
Whittington (Newcastle W.W.)	A. L. Forster, Esq., C.E.	8	0	9	528	690	27·18	..
Burnside (,, ,,)	,, ,, ,,	5	0	9	419	706	27·80	..
RyalCottage (,, ,,)	,, ,, ,,	10	0	9	463	679	26·72	..
D†Morpeth (Bothalhaugh Garden)	Hon.&Rev.W.C.Ellis	5	1	10	35	700	27·57	199
† ,, (,, ,,) M	,, ,, ,,	5	1	10	35	696	27·40	..
D† ,, (,, Lawn)	,, ,, ,,	5	1	10	137	691	27·20	199
† ,, (,, ,,) M	,, ,, ,,	5	1	10	137	714	28·12	..
,, (Ashington)	W. Wilson, Esq.	5	1	0	110	637	25·10	168
,, (Cockle Park)	JDHigginbothamEsq*p*.M.O	8	1	0	325	755	29·73	197
D†Font Res. (TynemouthW.W.)	J. W. McKerrow, Esq.	10	1	0	614	792	31·20	194
D†Acklington (Broomhill Colliery)	Broomhill Collieries,Ltd.	5	7	0	92	619	24·38	177
†Rothbury (Brinkburn Priory)	Mrs. Hugh Fenwick	8	1	2	257	682	26·85	..
D Felton (Newton-on-the-Moor)	J. A. Charlton, Esq.	5	1	6	500	659	25·93	164
Alnwick Castle	Mr. R. Kyle, *per* M.O.	8	0	4	181	750	29·53	189
D Howick Hall	EarlGrey,G.C.B., G.C.V.O.	8	0	10	120	647	25·49	164
Beal (Lowlynn)	H. L. Pattinson, Esq.	5	1	10	200	613	24·13	..
6.—*TWEED.* 262 *sq. mi.*								
D Glanton (Glanton Pyke Gdns.)	Mr. J. Henderson	8	4	2	521	732	28·81	181
D Ilderton (Lilburn Tower)	A. B. Collingwood, Esq.	10	6	0	300	761	29·95	163
D ,, (,, Cottage)	N. D. Cowans, Esq.	5	1	0	340	732	28·84	186
Wooler (St. Ninians)	Dr. R. Walker	8	0	10	176	801	31·53?	..
,, (Victoria House)	Miss E. M. Dodds	5	1	0	176	689	27·11	..
,, (The Thirlings)	Col. J. M. W. Anderson	5	1	6	150	694	27·33	..
Doddington Vicarage	Rev. J. G. Shotton	8	1	6	140	714	*28·10*	..
Pawston [Coldstream]	B. P. Selby, Esq.	5	1	0	327	871	34·30	184
Ford Castle Gardens	Mr. J. Jackson	5	3	0	220	688	27·10	183
7.—*INSULAR.* 1 *sq. mi.*								
CUMBERLAND. (Area, 1516 sq. mi.)								
1.—*EDEN & SOLWAY.* 887 *sq. mi.*								
Ullswater (Hallsteads)	Miss C. Marshall	5	2	0	497	1169	46·04	189
Watermillock (Mell Fell House)	Mrs. Spring-Rice	5	1	0	980	1045	41·15	..
D Penrith (Fell Lane)	H. Lester, Esq.	5	1	0	575	788	31·02	181
,, (Nandana)	J. C. Varty-Smith, Esq.	5	1	0	650	767	30·19	266
D ,, (Benson House)	A. B. Sinclair, Esq.	5	0	8	480	864	34·00	185
,, (Newton Rigg)	W. T. Lawrence, Esq.	8	1	0	559	905	35·65	197
,, (Greystoke Castle)	J. Smith Hill, Esq.	5	1	3	650	971	38·24	..
D ,, (Ennim)	Mrs. Hamlet Riley	8	0	6	660	923	36·32	172
Uldale (Chapel House Res.)	J. Ferguson, Esq.	8	1	0	600	1078	42·44	165
D Penrith (Nunwick Hall)	Mrs. Heywood Thompson	5	1	0	298	752	29·61	166
Mealsgate (Quarry Hill)	J. Ferguson, Esq.	..	1	0	487	870	34·25	180
D Wigton (Brookfield)	J. Ransom Marsh, Esq.	5	5	0	124	754	29·70	193
,, (Woodlands)	,, ,, ,,	5	1	0	..	886	34·88	..
D ,, (Dacre House)	J. H. Walker, Esq.	5	4	6	134	813	32·00	193

DIVISION X—NORTHERN COUNTIES—(*continued*).

	STATIONS.		AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	CUMBERLAND—(*con.*)			*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*EDEN & SOLWAY*—(*con.*)									
D	Wreay Vicarage		Rev. Canon A. R. Hall	5	2	0	310	770	30·30	185
D	Geltsdale		H. C. Marks, Esq., C.E.	5	1	2	778	847	33·35	226
D	Carlisle (Spital Cemetery)		J. T. Charlton, Esq.	8	1	0	115	741	29·16	176
	,, (Denton Holme)		W. Eggleston, Esq.	5	2	0	57	656	25·81	..
D	,, (Newby Grange)		Mrs. Hodgson	5	0	8	64	719	28·32	189
	,, (Scaleby Hall)		SirR.A.Allison,*per*M.O.	5	1	0	112	878	34·56	193
D	Penton (Warwicksland School)		W. Roden, Esq.	5	1	0	360	861	33·91	182
	2.—*DERWENT.* 257 *sq. mi.*									
	Sprinkling Tarn	M	Dr. H. R. Mill	5	1	6	1985	3294	129·70	..
	Styehead Tarn	M	,, ,, ,,	4	0	6	1472	2454	96·60	..
†	The Stye B	M	,, ,, ,,	4	1	0	1077	4130	162·60	.
	,, B..*Seathwaite g.*	M	,, ,, ,,	5	1	6	1070	4364	171·80	..
†	,, C	M	,, ,, ,,	4	1	0	1077	4003	157·60	..
†	,, D	M	,, ,, ,,	4	1	0	1077	3079	121·20	..
†	Borrowdale (Seathwaite)	M	,, ,, ,,	4	0	6	422	3171	*124·86*	..
†	,, (,,)*weekly*		,, ,, ,,	5	1	0	422	3041	*119·74*	..
†	,, (,,)		,, ,, ,,	5	1	0	423	3120	*122·85*	..
	Ullscarf	M	G. H. Hill, Esq., C.E.	7	1	8	2100	1661	65·40	..
	Helvellyn (Birkside)	M	,, ,, ,,	7	1	3	1900	1610	63·40	..
	Wythburn	M	,, ,, ,,	7	1	4	610	2075	81·70	..
	Buttermere (Hassness)		Miss C. Marshall	5	1	0	355	2325	91·53	198
†	Borrowdale (Grange)		Mr. J. Threlkeld	5	0	9	271	1792	70·54	..
	Armboth Fells (The Pewitts)		G. H. Hill, Esq., C.E.	7	1	6	1650	2062	81·20	..
	Helvellyn (Whiteside)		,, ,, ,,	7	1	6	2100	1466	57·70	..
	Thirlmere (Dale Head Hall)		,, ,, ,,	7	1	5	620	1735	68·30	..
D	Keswick (Derwent Island) *old g.*		Miss C. Marshall	5	0	7	280	1366	53·79	224
D	,, (,, ,,) *new g.*		,, ,, ,,	5	0	6	290	1359	53·51	224
D	,, (Castlerigg Manor)		,, ,, ,,	7	1	11	675	1356	53·40	237
D†	,, (The Bank)		Mr. A. Campbell	5	1	6	265	1312	51·67	205
D†	,, (Crosthwaite School)		H. Swinburn, Esq.	5	1	0	254	1245	49·03	198
D	,, (Mirehouse)		Miss Spedding	5	1	1	320	1143	45·02	212
	Cockermouth (Whinfell Hall)		W. Peile, Esq.	5	0	1	255	1307	51·47	..
D	,, (Lorton Hall)		Sir J. T. Hutchinson	5	1	0	240	1236	48·66	201
	,, (Brandlingill)		Mrs. Sewell	5	1	0	320	1288	50·72	..
	,, (Elmhurst)		Josiah Hall, Esq.	5	0	10	300	1053	41·44	..
D	,, (Brigham Road)		R. M. Lidbetter, Esq.	5	6	0	150	1083	42·63	*184*
D	,, (Derwent Lodge)		Wilfrid Irwin, Esq.	5	4	6	220	972	38·27	199
D	Threlkeld (BlencathraSanator.)		Dr. W. Goodchild	5	1	0	885	1557	61·31	218
	Camerton Vicarage		Rev. E. C. Bennett	5	1	0	200	970	38·17	..
	Bassenthwaite (Higham)		Joseph Fisher, Esq.	5	0	9	500	1068	42·04	182
	3.—*WEST COAST STREAMS.* 235 *sq. mi.*									
	Ravenglass (Newtown)		G. L. McKelvie, Esq.	5	1	6	130	1111	43·76	..
	,, (The Grove)		Miss C. Marshall	5	2	8	77	1062	41·83	167
	Eskdale Green (Gatehouse)		,, ,, ,,	5	1	0	130	1465	57·67	198
	Beckfoot		,, ,, ,,	5	1	0	180	1488	58·59	179
D	Seascale (Whinthwaite)		Dr. R. Hellon	5	1	0	52	994	39·12	168
	Netherwasdale Vicarage		Rev. J. Hodgson	5	1	0	182	1554	61·17	154
	Braystones		H. H. Watson, Esq.	10	3	6	36	971	38·23	..
D	Egremont (The Grange)		J. Sherwen, Esq.	5	1	0	351	1247	49·10	199
D	Whitehaven (Scragill Reservoir)		E. E. Stiven, Esq., C.E.	8	1	0	188	1051	41·38	183

DIVISION X.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground		Height Above SeaLevel	1917		
CUMBERLAND—(*con.*)		in.	ft.	in.	feet	mm.	inches	
3.—*WEST COAST STREAMS*—(*con.*)								
D Whitehaven (Irish Street) ...	Dr. Eldon Pratt	5	1	1	21	1079	42·49	178
Distington (Gilgarran)	Mr. A. Kydd	5	4	9	470	1057	41·62	162
D Workington (Winscales House)	J. A. Trench, Esq.	5	0	9	440	938	36·93	183
4.—*DUDDON & C.* 50 *sq. mi.*								
D Silecroft (Old Chappels)	G. H. Holt, Esq.	5	1	0	200	1501	59·11	199
5.—*SOUTH TYNE.* 87 *sq. mi.*								
D Alston (Nenthead)	Caldwell Harpur, Esq. ..	8	2	6	1463	1456	57·31	191
D ,, (Samuel King's School)	J. G. McIntosh, Esq. ...	5	1	0	1060	1116	43·95	217
WESTMORLAND. (Area, 783 sq. mi.)								
1.—*EDEN.* 373 *sq. mi.*								
Ravenstonedale (The Chantry) .	Miss D. V. Highmoor ..	5	1	11	900	1146	45·13	*215*
D Kirkby Stephen (Redman Ho.)	Mrs. T. Mason	5	1	0	574	1010	39·77	184
Hayes Water (High St.) No. 3	J. J. Knewstubb, Esq., C.E.	5	1	0	2600	2334	91·90	..
,, ,, (Lowther Lot) No. 2	,, ,, ,, ..	5	1	0	2000	2380	93·70	..
,, ,, (Gray Crag) No. 1	,, ,, ,, ..	5	1	0	1750	2444	96·20	..
Grizedale (Ruthwaite Lodge) ..	Miss C. Marshall	8	1	6	1750	2298	90·46	..
Patterdale Hall	,, ,, ,, ...	5	1	3	490	1951	76·83	190
,, (Greenside Mine) ...	W. H. Borlase, Esq. ...	7	1	6	1000	1779	70·03	..
D Appleby (Castle Bank)	C. R. Rivington, Esq. .	5	1	2	440	832	32·75	195
Ullswater (Sharrow Bay)	Mr. G. Robinson	5	0	7	600	945	37·22	..
D Great Strickland (Greencroft) .	Mrs. Whiteside	5	2	0	648	885	34·85	201
D Morland [Penrith]	Miss M. F. Markham ..	5	1	0	456	815	32·10	212
2.—*LEVEN.* 60 *sq. mi.*								
†Bowness (Lindeth Howe)	Captain F. G. Senior ..	5	1	0	250	1596	62·85	196
D ,, (Dawstone)	A. M. Sing, Esq.	5	1	2	550	1480	58·28	193
D† ,, (Fallbarrow)	Miss E. F. Rawson ...	8	1	0	155	1484	58·41	181
D†Windermere (Hammar Bank) .	H. Coutts, Esq.	5	1	0	290	1468	57·81	209
D†Bowness (Fellside)	T. D. Lingard, Esq. ..	5	0	6	310	1526	60·07	190
D†Windermere (Holehird)	W. G. Groves, Esq......	5	1	0	483	1571	61·85	207
D† ,, (Brockhole)	W. Gaddum, Esq.	5	1	6	175	1478	58·18	195
D†Ambleside (Wansfell)	Miss C. Marshall	8	1	0	150	1631	64·23	199
† ,, (Skelwith Bridge) ..	,, ,, ...	5	1	9	190	1947	76·65	200
Little Langdale (Fell Foot) M	,, ,, ...	5	2	2	380	2501	98·46	..
D†Ambleside (White Craggs)	C. H. Hough, Esq.	5	2	4	252	1635	*64·36*	199
D ,, (Gale House)	G. A. Johnston, Esq., M.D	5	1	0	180	1733	68·23	212
D ,, (Loughrigg Brow) ..	I. H. Storey, Esq.	5	1	0	279	1802	70·93	207
,, (Lesketh How)	Miss Benson	5	2	6	175	1859	73·21	227
Elterwater Hall	Miss C. Marshall	5	1	1	200	2123	83·57	..
D†Rydal (The Stepping Stones) ..	Gordon Wordsworth, Esq.	5	1	0	190	1884	74·18	210
† ,, ,, ,, M	,, ,, ...	5	1	3	190	1871	73·68	..
D ,, ...	Miss M. Yates.........	5	0	7	390	1880	74·01	209
D ,, (High Close)	F.E.T. Jones Balme, Esq.	8	0	9	553	1887	74·29	198
D ,, (Silverthwaite)	Miss A. Sharp	5	1	0	292	1723	67·82	205
D†Dungeon Ghyll	Miss C. Marshall	5	1	0	310	2667	104·99	213
† ,, ,, ... M	,, ,, ...	5	1	0	311	2693	106·01	..
†Mickleden .... M	,, ,, ...	5	1	6	490	3827	150·66	..
D Grasmere (The Wray)	Miss G. M. Simpson	5	1	0	221	2137	84·14	220

DIVISION X.—NORTHERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01in. or more
	WESTMORLAND—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*KENT.* 188 *sq. mi.*								
D	Heversham (Plumtree Hall)	T. Carrick Watson, Esq.	5	0	8	115	1215	47·83	191
D	,, (Leasgill)	T. A. Argles, Esq.	5	0	8	130	1117	43·98	196
D	Kendal (Crosthwaite Vicarage)	Rev. T. Heelis	5	1	0	200	1334	52·54	173
D	,, (Vicarage Terrace)	G. F. Braithwaite, Esq.	8	0	6	160	1279	50·36	192
D†	,, (Holmcroft)	R. Rhodes, Esq.	5	1	3	176	1263	49·71	213
†	,, (Birchfield)	H. W. Baron, Esq.	5	1	6	175	1256	49·44	197
D†	,, (Low Slack)	A. W. Wilson, Esq.	5	1	0	350	1277	50·27	183
†	,, (Ellergreen)	C. J. Cropper, Esq.	5	1	6	270	1425	56·11	209
	,, (Potter Tarn Res.)	Mssrs. J. Cropper & Co. Ltd.	5	1	0	800	1805	71·08	..
	Long Sleddale (Low House)	MA. Wilson, Esq.	5	1	0	550	1670	65·74	..
	4.—*LUNE.* 122 *sq. mi.*								
	Kirkby Lonsdale	J. R. Picard, Esq.	7	0	8	215	1192	46·93	..
D	,, ,, (Casterton)	C. E. Clarke, Esq.	8	1	0	305	1211	47·67	210
D	,, ,, (,,)	Miss Williams	8	1	6	320	1104	43·46	186
	Barbon (Underfell)	Miss C. E. Wilson	5	1	5	405	1145	45·07	190
D	,, Manor	Lord Shuttleworth	5	1	3	650	1083	42·63	155
D	,,	W. Wilkinson, Esq.	5	1	0	310	1177	46·36	161
D	Orton	Michael Scott, Esq.	5	1	0	770	1377	54·21	212
	5.—*TEES.* 40 *sq. mi.*								

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

	MONMOUTH. (Area, 534 sq. mi.)								
	1.—*RHYMNEY.* 39 *sq. mi.*								
D	Rumney (Witla Court)	Mr. J. F. Matthyssens	5	1	3	168	934	36·77	150
D	Marshfield Vicarage	Rev. H. G. Stanley	5	1	1	50	838	33·01	179
	2.—*EBBW.* 88 *sq. mi.*								
	Rogerstone (Brynhedydd)	Blethyn T. Rees, Esq, C.E.	5	0	8	333	996	39·22	..
D	,, (Rhiwderin)	L. Forestier-Walker, Esq.	5	1	3	259	945	37·20	163
	Abercarn (Cwmcarn)	J. Williams, Esq.	12	3	2	425	1013	39·89	..
D	Abertillery (The Park)	S. E. Thomas, Esq.	5	1	0	700	1268	49·91	187
D	,, (Cwmtillery)	W. Y. Hobkirk, Esq.	5	1	0	970	1268	49·91	184
D	Tredegar (Redesdale)	D. W. Davies, Esq.	5	1	6	963	1065	41·95	202
D	Ebbw Vale (Iron Works)	D. S. Whitehead, Esq.	8	1	0	902	1244	48·96	204
D	Nant-y-bwch (Shon Sheffrey's W.)	D. W. Davies, Esq.	5	1	5	1204	1133	44·60	200
	3.—*USK & C.* 290 *sq. mi.*								
	Goldcliff (Porton)	Blethyn T. Rees, Esq., C.E	5	1	3	27	749	29·48	..
	Portskewett (Sudbrook)	H. V. Woodward, Esq. C.E.	8	0	10	22	762	30·01	..
D†	Newport W.W. (Friar St. Yard)	Newport Corporation	5	6	0	32	978	38·50	184
D†	,, ,, (Ynis-y-fro Res.) *old g.*	,, ,,	5	1	0	130	924	36·38	203
†	,, ,, (,, ,, *new g.*	,, ,,	5	1	0	130	1002	39·45	203
D†	,, ,, (Pant-y-reos Res.)	,, ,,	5	1	0	435	1183	46·59	205
D†	,, ,, (Llanvaches)	,, ,,	5	0	10	456	946	37·23	197
D	,, ,, (Nantypridd, Wentwood)	,, ,,	5	1	0	500	970	38·19	191
D	Chepstow (Itton Court)	E. Curre, Esq.	5	1	0	390	832	32·75	171
	Llanfrechfa Grange	Maj.-Gen. W. F. Cleeve	5	4	0	326	925	36·41	..
D†	Newport W.W. (Newchurch)	Newport Corporation	5	1	0	550	1018	40·07	191
D	Usk (Castle Parade House)	J. Maitland Watkins, Esq.	5	1	0	75	897	35·31	169
	Devauden (Tredean)	W. W. Hood, Esq., C.E.	5	3	6	700	781	30·75	..

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	MONMOUTH—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*USK & C.*—(*con.*)								
	Abersychan (Glansychan)	W.P.James,Esq.*per*M.O.	5	1	0	699	1332	52·38	201
	Bettws Newydd (Brynderwen)	E.H.M.Luckock, Esq.	5	1	0	136	916	36·07	167
	Blaenavon (Estate Office)	H. G. Steel, Esq.	8	4	6	1150	1293	50·89	..
	Abergavenny	F. Mansfield, Esq.	5	1	0	194	950	37·40	..
D	,, (Larchfield)	Dr. N. R. Phillips	5	1	0	240	847	33·35	168
D†	,, (The Chain)	W. Baker Gabb, Esq.	5	1	0	310	888	34·96	178
D†	Grwyne Fawr (Coed Dias)	,, ,, ,,	5	1	0	900	1159	45·62	199
	4.—*WYE.* 117 *sq. mi.*								
D	Chepstow (Piercefield Park)	H. Clay, Esq.	5	1	6	310	844	33·23	158
	Tintern	J. Roberts, Esq.,*per*M.O.	..	..		99	907	35·74	194
	Monmouth (The Elms)	Mrs. Hall	5	1	1	91	701	27·60	..
D	,, (The Hendre)	Mr. T. Coomber	8	1	0	176	724	28·52	168
D	,, (Pentwyn)	Rev. Canon J. Harding	9	1	0	191	770	30·33	166
	GLAMORGAN. (Area, 808 sq. mi.)								
	1.—*LOUGHOR.* 55 *sq. mi.*								
D	Gorseinon (Penllergaer)	Sir J.T.D.Llewelyn,Bt.	5	3	0	240	1145	45·08	184
D	Felindre (Lower Lliw Res.)	Lt. G. R. Collinson, R.E.	8	1	3	426	1181	46·48	200
D	,, (Upper ,, ,,)	,, ,, ,,	8	1	0	610	1439	56·64	217
	2.—*GOWER PENINSULA.* 62 *sq. mi.*								
D	Penmaen (Cefn Mor)	Capt. R. A. Bostock	5	1	5	300	1031	40·60	174
	Mumbles (BristolCh.Yacht Clb.)	A. Whitman, Esq.	5	1	0	20	947	37·28	170
D	Swansea (Killay House)	Mrs. M. B. Williams	5	0	6	265	1136	44·71	184
	3.—*TAWE.* 47 *sq. mi.*								
D	Swansea (Victoria Park)	Mr. D. Bliss	8	1	0	26	1149	45·25	198
D	,, (The Knoll)	E. H. Perkins, Esq.	5	1	0	150	1189	46·82	201
	Morriston (The Vicarage)	Rev. D. Williams	5	1	0	236	1184	46·61	191
	Pontardawe (Plas Cilybebyll)	J. H. B. Lloyd, Esq.	5	3	0	510	1431	56·34	188
D	Ystalyfera (Wern School)	J. Williams, Esq.	5	1	3	240	1600	63·00	219
	4.—*NEATH.* 82 *sq. mi.*								
D	Briton Ferry (Brynsiriol)	H. A. Clarke, Esq., C.E.	5	1	0	33	1053	41·44	166
	,, ,, (Cefn Court)	,, ,, ,,	5	1	0	503	1168	45·98	189
D	Neath	D. M. Jenkins, Esq.,C.E.	5	1	0	204	1242	48·90	184
D	,, (Maesmelyn)	Major E. Ll. Green	5	1	6	115	1178	46·37	187
	,, (Glynfeln)	T. Gibbins, Esq.	5	1	4	180	1249	49·17	174
	5.—*OGMORE & C* 350 *sq. mi.*								
D	Cowbridge (Fonmon Castle)	Mrs. Oliver Jones	8	1	2	130	818	32·22	154
D	Barry W.W. (Biglis)	T. E. Franklin,Esq.,C.E.	5	1	0	20	828	32·61	171
	,, ,, (MerthyrDyfanRs.)	,, ,, ,,	5	1	0	300	878	34·58	..
	,, ,, (Pencoedtre Res.)	,, ,, ,,	5	1	0	200	872	34·33	..
	,, ,, (Dinas Powis Res.)	,, ,, ,,	5	1	0	165	954	37·57	..
D	Lower Penarth	E. I. Evans, Esq., C.E.	5	1	0	67	791	31·15	167
D	Penarth	,, ,, ,,	5	5	0	160	898	35·34	178
D	Cardiff (Cogan Pill,Llandough)	C.H.Priestley, Esq., C.E.	5	1	0	121	811	31·92	177
D	,, (Ely Pumping Station)	,, ,, ,,	5	1	0	53	972	38·27	247
D	,, (St. Fagans)	Capt. H. A. Pettigrew	5	0	11	100	1115	43·89	189
	Cowbridge (Ash Hall)	E. Tudor Owen, Esq.	8	3	0	315	1105	43·49	195
	Merthyr Mawr	Lt.-Col.JDNicholl*per*MO.	..	..		74	1091	43·02	173
D	Bridgend (Highmead)	H. J. Randall, Esq.	5	1	0	70	1055	41·53	172

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		SeaLevel			
GLAMORGAN—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
5.—*OGMORE & C.*—(*con.*)								
D Llantrisant (Talygarn)	G. L. Clark, Esq.	5	4	3	250	1247	49·11	195
,, (S.RhonddaColliery)	W.W. Hood, Esq., C.E.	5	15	0	480	1116	43·95	..
D Port Talbot (Twyn-yr-hydd)	G. Lipscomb, Esq.	5	1	0	180	993	39·11	195
Glyncorrwg Colliery	Mr. C. Stephens	5	4	6	725	1446	56·92	..
6.—*TAFF.* 157 *sq. mi.*								
D Cardiff (Trade Street Depôt)	C.H.Priestley,Esq., C.E.	5	1	0	45	975	38·39	184
D Llandaff (West Hill)	J. E. Gladstone, Esq.	5	1	0	110	1030	40·53	209
Pontypridd (Maesderw'n,Graig)	T. Bowen, Esq.	5	6	0	425	1158	45·57	173
D ,, (Lan Wood Res.)	T. W. Coates,Esq.,C.E.	5	1	0	300	1205	47·45	207
D†Ystradyfodwg(TyntylaHospital)	J. D. Jenkins, Esq.,M.D.	5	1	0	590	1023	40·26	167
D Treharris Service Reservoir	T. F. Harvey, Esq., C.E.	5	1	0	865	1185	46·67	194
D†Mountain Ash (Maesydderwen)	Lieut.-Col. M. Morgan	5	1	0	483	1210	47·63	181
D† ,, ,, (Darranlas Res.)	W. G. Thomas, Esq.	5	0	11	540	1310	51·58	205
D Treherbert (United Nat. Coll.)	D. Jenkins, Esq.	..	..	..	670	1829	72·00	228
D† ,, (Tyn-y-waun)	O. Thomas, Esq.	5	1	0	801	1835	72·24	229
† ,, ,, ,,)	M ,, ,, ,,	5	1	0	801	1839	72·40	..
D Cwmaman Colliery	J. Standridge, Esq.	5	2	2	930	1426	56·13	168
D Rhondda(PontLluestWenRes.)3	T. W. Coates, Esq., C.E.	5	1	6	1200	1690	66·53	209
D† ,, (,, ,, ,,) 2	,, ,, ,,	5	1	6	1225	1405	55·30?	209
D ,, (,, ,, ,,) 1	,, ,, ,,	5	1	6	1250	1830	72·03	215
D ,, W.W.(LlynFawrRes.)	Mr. J. B. Hughes	8	1	0	1220	1735	68·32	230
D Merthyr Tydfil (PenbrynFilters)	T. F. Harvey, Esq., C.E.	5	1	0	936	1191	46·91	215
,, ,, ,,	M ,, ,, ,,	5	1	0	936	1184	46·60	..
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1	6	1071	1074	42·29	202
7.—*RHYMNEY.* 55 *sq. mi.*								
D Cardiff (Roath Park)	Mr. A. A. Pettigrew	5	0	9	49	948	37·32	188
D† ,, (Penylan)	E. Walford, Esq., M.D	5	1	0	204	1032	40·63	190
D ,, (New Filters, Heath)	C. H. Priestley, Esq. C.E	5	1	0	132	976	38·43	196
D Llanishen Reservoir	,, ,, ,,	5	1	0	155	924	36·38	182
D Lisvane Reservoir	,, ,, ,,	5	1	0	150	872	34·34	179
Caerphilly (Ruperra Castle)	Mr. J. Newcombe	5	1	6	381	1105	43·50	202
,, (Deneholme)	J.Prosser-Jones,Esq.C.E.	5	1	0	400	1124	44·25	..
D Rhymney Bridge Res.	M ,, ,, ,,	8	1	0	1098	1239	48·77	184
CARMARTHEN. (Area, 918 sq. mi.)								
1.—*TEIFI.* 87 *sq. mi.*								
2.—*TOWY & C.* 715 *sq. mi.*								
D Laugharne (Broadway)	H. Eccles, Esq.	5	2	0	174	1132	44·58	169
Llanddarog (Lletherllestry)	H. L. Puxley, Esq.	4	1	0	242	1171	46·11	197
D Carmarthen (The Friary)	L. M. Bowen-Jones, Esq.	5	1	5	62	1191	46·90	229
†Llandilo (Golden Grove Gdns.)	Mr. F. Surman	6	1	6	125	1174	46·21	161
D† ,, (Dynevor Castle)	Lord Dynevor	8	1	0	202	1135	44·69	217
D† ,, (Cwmifor School)	T. I. Griffiths, Esq.	5	1	0	210	1113	43·83	204
D Llanddeusant (Pontcrynfe)	J. Thomas, Esq.	5	1	0	323	1246	49·04	202
D Llandovery (Nantyalwygfaen)	D. T. M. Jones, Esq.	5	1	0	249	1324	52·12	215
D Llanwrda (Dolaucothy)	Gen.SirJ.Hills-JohnesVC.	5	2	6	498	1526	60·08	243

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued.*)

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	CARMARTHEN—(*con.*)								
	3.—*LOUGHOR & C.* 104 *sq. mi.*								
D	Llanelly (Old Market Yard)	G. Watkeys, Esq., C.E.	5	10	0	35	1070	42·12	189
D	,, (Cwmlliedi W. W.)	,, ,, ,,	5	3	0	240	1339	52·73	213
D	Ammanford (Wernolen)	E. Hewlett, Esq.	5	0	8	200	1303	51·28	202
	4.—*TAWE.* 7 *sq. mi.*								
	5.—*USK.* 5 *sq. mi.*								
	6.—*WYE.*								
	PEMBROKE. (Area, 617 sq. mi.)								
	1.—*TEIFI.* 37 *sq. mi.*								
	2.—*NEVERN & C.* 91 *sq. mi.*								
D	Fishguard (Goodwick Station)	G. Lambert Gibson, Esq.	5	7	4	57	832	32·76	162
D	Newport (Llwyngwair)	G. B. Bowen, Esq.	8	1	1	40	991	39·02	170
	3.—*WEST COAST STREAMS.* 82 *sq. mi.*								
	St. Davids	late D.P.Williams, Esq.	5	1	0	216	899	35·38	..
	4.—*CLEDDAU & C.* 407 *sq. mi.*								
	Pembroke (Stackpole Court)	Mr. W. B. Fisher	6	1	6	60	910	35·83	177
	Tenby	MissD.Truscott,*per*M.O.	..	..		64	1004	39·53	174
D	,, (Lexden House)	Dr. E. M. R. Bryant	5	*on roof*		76	1019	40·10	171
	,, (Glendower)	J. T. C. Burgess, Esq.	5	1	6	70	1017	40·06	167
	St. Ann's Head	Meteorological Office	8	0	8	150	958	37·71	198
D	Pembroke	(R)R. M. B. Mackenzie,Esq.	6	1	8	103	956	37·65	173
D	,, (Bangeston)	Comm.P.C.Pearson,R.N.	5	1	0	40	1055	41·53	177
D	,, Dock (CountySchool)	G. H. West, Esq.	5	1	0	85	1053	41·44	190
D	Saundersfoot (Hean Castle)	Lord Merthyr	5	1	0	206	956	37·64	165
D	Templeton (Hill)	Mrs. E. L. B. Allen	5	1	0	545	1283	50·52	207
	Haverfordwest (Picton Castle)	Sir C. E. G. Philipps, Bt.	5	0	10	138	1117	43·99	189
D	,, (Portfield)	J. W. Phillips, Esq.	5	1	0	220	1037	40·83	195
D	,,	,, ,, ,,	5	1	0	95	1063	41·84	175
	Haverfordwest (Poyston)	Dr. Henry Owen	..	..		125	1016	40·00	..
	Penfford Council School	Thomas H. Davies, Esq.	5	1	0	317	1065	41·95	155
D	Treffgarne Hall	Col. R. O. Lloyd, R.E.	5	1	1	286	1056	41·57	190
D	Fishguard (Langton,Dwrbach)	J. C. Yorke, Esq.	5	1	0	320	968	38·11	215
	CARDIGAN. (Area, 688 sq. mi.)								
	1.—*DOVEY.* 20 *sq. mi.*								
	2.—*YSTWYTH & C.* 347 *sq. mi.*								
D	Lampeter (Llanlear)	Miss Lewes	5	1	1	226	1104	43·45	194
D	Strata Florida (Hafod)	T. J. Waddingham, Esq.	5	1	0	580	1583	62·32	227
	Aberystwyth (North Parade)	Dr. A. Thomas	8	2	6	15	976	38·41	192
D	,, (Gogerddan)	Mr. R. Winstanley	5	1	1	83	1276	50·22	197
	3.—*TEIFI.* 260 *sq. mi.*								
D	Lampeter (Falcondale)	Mr. W. Taylor	5	1	0	498	1311	51·60	218
	4.—*TOWY.* 46 *sq. mi.*								
D†	Nantneuadd [Abergwesyn]	Mr. W. Roberts	5	1	0	1290	1766	69·53	179
†	Tregaron (Maes-y-bettws)	M Dr. H. R. Mill	5	1	0	910	1765	69·50	..
†	Strata Florida (Towy-fechan)	M ,, ,, ,,	5	1	0	1330	1951	76·80	..
	5.—*WYE.* 15 *sq. mi.*								
	Birm'ghamW.W.(LlynGynon)	M E. Antony Lees, Esq.	5	1	0	1500	1739	*68·45*	..
†	,, ,, (Bwlchyrhendre)	M ,, ,, ,,	5	1	0	1585	1687	66·40	..
	,, ,, (Claerddu)	M ,, ,, ,,	5	1	0	1500	1920	75·60	..

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		SeaLevel			
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
CARDIGAN—(*con.*)								
5.—*WYE*—(*con.*)								
Birmingham W.W. (Gwngu) M	E. Antony Lees, Esq.	5	1	0	1650	1608	63·29	..
D ,, ,, (Abergwngu)	,, ,, ,,	5	1	0	1200	1485	58·45	171
Plynlimon M	Dr. H. R. Mill	5	1	0	1740	2621	103·20	..
BRECON. (Area, 733 sq. mi.)								
1.—*TOWY.* 17 *sq. mi.*								
2.—*TAWE.* 41 *sq. mi.*								
D Swansea W.W. (Nantyrwydd)	Lt. G. R. Collinson, R.E.	5	1	0	920	1818	71·56	240
3.—*NEATH.* 48 *sq. mi.*								
†PontNeathVaughan[GlynNeath]	Mssrs.Curtis&HarveyLd.	5	1	5	297	1398	55·03	203
Ystradfellte Reservoir	D. M. Davies, Esq.	5	1	0	1147	1705	67·11	199
4.—*TAFF.* 48 *sq. mi.*								
D Nanthir Reservoir[Aberdare]	O. Williams, Esq., C.E.	5	1	0	860	1221	48·08	214
,, ,, [,,] M	,, ,, ,,	5	1	0	860	1224	48·21	..
Penderyn	F. W.LaT.BatemanEqce	5	1	0	1003	964	37·97	..
D Taff Fechan (Pontsticill) .No.12	T. F. Harvey, Esq.,C.E.	5	1	0	1031	1313	51·68	201
,, ,, (,, West ..14	,, ,, ,,	5	1	0	1254	1346	53·01	.
,, ,, (,, East) .13	,, ,, ,,	5	1	0	1763	1201	47·28	..
D†Cardiff W.W. (Llwynon Res.)	C. H. Priestley Esq., C.E	5	1	0	860	1316	51·83	221
,, ,, (Troedyrhiw)	,, ,, ,,	5	1	0	860	1376	54·16	..
D ,, ,, (Pont-ar-daf)	,, ,, ,,	5	1	0	850	1430	56·31	218
,, ,, (Garw-nant)	,, ,, ,,	5	1	0	1100	1516	59·70	..
,, ,, (Nant Gwineu)	,, ,, ,,	5	1	0	1275	1246	49·04	..
,, ,, (Nant-y-gou-garn)	,, ,, ,,	5	1	0	..	1626	64·01	..
D†Taff Fechan (Pentwyn Res.)	T. F. Harvey, Esq., C.E.	5	1	0	1120	1535	60·42	246
† ,, ,, (,, ,,) M	,, ,, ,,	5	1	0	1120	1487	58·53	..
Cardiff W.W. (Nant Goch)	C. H. Priestley, Esq.,C.E.	5	1	0	..	1392	54·81	..
,, ,, (Nant Ddu)	,, ,, ,,	5	1	0	1560	1582	62·29	..
† ,, ,, (Storey Arms, No. 4)	,, ,, ,,	5	1	0	1430	1516	59·70	..
,, ,, (Tyle Brith, No. 1)	,, ,, ,,	5	1	0	2350	1607	63·28	..
D† ,, ,, (Cantreff Res., No. 2)	,, ,, ,,	5	1	0	1120	1613	63·50	214
D† ,, ,, (Beacons Res., No. 6)	,, ,, ,,	5	1	0	1340	1762	69·39	228
,, ,, (Nant Penig, No. 3)	,, ,, ,,	5	1	0	2000	1986	78·19	..
D†Taff Fechan(NeuaddRes.)No.1	T. F. Harvey, Esq., C.E.	5	1	0	1462	1726	67·95	244
† ,, ,, (,, ,,)No.1M	,, ,, ,,	5	1	0	1462	1657	65·23	..
D† ,, ,, (,, ,,)No.4	,, ,, ,,	5	1	0	1487	1971	77·62	244
D† ,, ,, (,, ,,)No.4A	,, ,, ,,	5	1	0	1487	1964	77·34	244
† ,, ,, (,, ,,)No.2M	,, ,, ,,	5	1	0	1993	1392	54·80	..
† ,, ,, (,, ,,)No.5M	,, ,, ,,	5	1	0	1515	1789	70·42	..
† ,, ,, (,, ,,)No.10M	,, ,, ,,	5	1	0	1700	1398	55·06	..
D† ,, ,, (,, ,,)No.11	,, ,, ,,	5	1	0	1524	1523	59·95	244
† ,, ,, (,, ,,)No.7M	,, ,, ,,	5	1	0	2017	1734	68·27	..
† ,, ,, (,, ,,)No.8M	,, ,, ,,	5	1	0	1723	1844	72·61	..
† ,, ,, (,, ,,)No.3M	,, ,, ,,	5	1	0	1843	1531	60·28	..
,, ,, (,, ,,)No3AM	,, ,, ,,	5	1	0	1843	1591	62·64	..
† ,, ,, (,, ,,)No.9M	,, ,, ,,	5	1	0	1997	1372	54·03	..
† ,, ,, (,, ,,)No.6M	,, ,, ,,	5	1	0	2099	2013	79·27	..
5.—*RHYMNEY.* 2 *sq. mi.*								

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
BRECON—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
6.—*EBBW.* 7 *sq. mi.*								
D†Ebbw ValeW.W.(Llangunider 1	T. J. Thomas, Esq., C.E.	5	1	0	1413	1270	50·02	210
† ,, ,, ,, (,,) *W3*	,, ,, ,, ..	5	1	0	1468	1388	54·66	209
† ,, ,, ,, (,,)*NW2*	,, ,, ,, ..	5	1	0	1471	1344	52·91	211
,, ,, ,, (Carno, S.) ...	,, ,, ,, ..	5	1	0	1236	1468	57·80	222
† ,, ,, ,, (,, E.) ..	,, ,, ,, ..	5	1	0	1391	1390	54·71	221
† ,, ,, ,, (,, W.) .	,, ,, ,, ..	5	1	0	1412	1497	58·92	222
† ,, ,, ,, (,, N.) ..	,, ,, ,, ..	5	1	0	1533	1420	55·91	222
7.—*USK.* 299 *sq. mi.*								
D†Crickhowell (Gwernvale)	E. Pirie Gordon, Esq. ..	5	1	0	393	941	37·06	194
D ,, (,, Garden)	,, ,, ,, ..	5	1	3	393	980	38·59	194
D Swansea W.W. (Bwlch)	Lt. G. R. Collinson, R.E.	8	1	0	1246	2335	91·94	237
D ,, ,, (Cray Res.) .(R)	,, ,, ,, ..	11	2	0	1030	1565	61·62	232
,, ,, (,, ,,)No.2	,, ,, ,, ..	5	1	0	1015	1976	77·80	..
†Talybont (Cui)	Lt.-Col.H.JonesWilliams	5	1	0	490	1005	39·55	..
† ,, (Pentir-rhiw)	Newport Corporation ..	5	1	0	600	1328	*52·30*	..
† ,, (Pwll Ifor)..........	,, ,, ..	5	1	0	1200	1472	*57·94*	..
†Brecon (New Inn)	Mr. W. Williams	5	1	0	810	1112	*43·78*	..
†Cray Station	MMr. J. Jones	5	1	0	930	1788	70·40	..
†Crickhowell (Cwmdu)	MMr. J. P. Edwards	5	1	0	430	1029	40·50	..
†Llanfrynach (Tymawr)........	Miss D. de Winton	5	1	0	450	1023	40·26	176
†Crickhowell (Tal-y-maes) ..	MDr. H. R. Mill	5	1	0	1250	1133	44·60	..
†Trecastle (Blaenau-hydfer)	,, ,, ,, ...	5	1	0	1070	1424	56·06	..
Sennybridge (Llwyncyntefn) ..	Mrs. Garnons-Williams .	5	1	4	650	1078	42·44	159
Brecon (Ffrwdgrech)	Capt. J. D. D. Evans .	8	1	1	570	1052	41·42	184
D†Black Mountains(Blaen-y-cwm)	J. F. Jupp, Esq., C.E. ..	5	1	0	1423	1390	54·74	194
D† ,, ,, (,,)...	The Referees, Aber-	5	1	0	..	1427	*56·20*	201
† ,, ,, (Waun Fach)	tillery Water Bd. Act	5	1	0	2650	1459	*57·44*	..
† ,, ,, (,, ,,)*unfenced* .	,, ,, ,, ..	5	1	0	2650	1471	*57·93*	..
D† ,, ,, (CwmGrigusUchaf)	,, ,, ,, ..	5	1	0	1980	1525	*60·05*	219
D† ,, ,, (,, ,,)*unfenced* .	,, ,, ,, ..	5	1	0	1980	1485	*58·48*	221
D† ,, ,,(DamSite,GrwyneFawr)	,, ,, ,, ..	5	1	0	1620	1551	*61·08*	217
D† ,, ,, (AberClyd)	,, ,, ,, ..	5	1	0	1880	1384	*54·50*	220
D† ,, ,, (,, ,,)*unfenced*	,, ,, ,, ..	5	1	0	1880	1394	*54·88*	220
† ,, ,, (Pen-y-Manllwyn)..	,, ,, ,, ..	5	1	0	2512	1303	*51·32*	..
† ,, ,, (,, ,,)*unfenced*	,, ,, ,, ..	5	1	0	2512	1354	*53·30*	..
D† ,, ,, (Taren-yr-Esgob) ..	,, ,, ,, ..	5	1	0	2039	1335	*52·57*	215
D† ,, ,, (,, ,,)*unfenced*	,, ,, ,, ..	5	1	0	2039	1345	*52·95*	215
D† ,, ,, (,, ,, Top)	,, ,, ,, ..	5	1	0	2100	1413	*55·63*	215
† ,, ,, (Twyn Tal-y-Cefn) .	,, ,, ,, ..	5	1	0	2130	1322	*52·03*	..
† ,, ,, (,, ,,)*unfenced*	,, ,, ,, ..	5	1	0	2130	1287	*50·68*	..
† ,, ,, (BlaenGrwyneFawr)	,, ,, ,, ..	5	1	0	2150	1337	*52·64*	..
† ,, ,, (,, ,,)*unfenced*	,, ,, ,, ..	5	1	0	2150	1369	*53·91*	..
†Upper Chapel (Tymawr)	Mrs. Probert	5	1	0	945	1052	41·40	..
8.—*WYE.* 271 *sq. mi.*								
D†Cathedine Rectory	Rev. D. H. Picton	5	1	0	660	834	32·82	171
†Capel-y-ffin (Monastery)	The Referees, Aber-	5	1	0	1047	1178	46·39	..
,, ,, (Waun Goch)	tilleryWaterBd.Act.	5	1	0	1260	1224	48·21	..
Talgarth (Dan-y-garth)	F. Morgan, Esq.	5	4	0	404	849	33·42	..
Gwernyfed [Glasbury]	Mrs.GlenKidston,*perM.O.*	5	1	0	375	806	31·74	182
D Llanwrtyd Wells (Brynonen) ..	Rhys D. Jones, Esq.....	5	1	0	702	1353	53·27	223
D Builth Wells (Tyn-y-berllan)...	Dr. W. Black Jones	5	1	0	430	863	33·99	189

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		SeaLevel			
BRECON—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
8.—*WYE*—(*con.*)								
†Abergwesyn (Trallwn)	MDr. H. R. Mill	5	1	0	1000	1838	*72·35*	..
†Pen-graig [Newbridge]	M ,, ,, ,, ...	5	1	0	960	1402	55·20	..
D†Llysdinam[,,]	Col.C.VenablesLlewelyn	5	1	3	646	1077	42·42	221
Birm'gh'mWW(Cors-yr-hwch)	ME. Antony Lees, Esq. ..	5	1	0	1775	2242	*88·26*	..
,, ,, (EsgairCeiliog)	M ,, ,, ,, ..	5	1	0	1525	1649	*64·91*	..
,, ,, (Llyn-Carw)	M ,, ,, ,, ..	5	1	0	1775	1990	78·36	..
† ,, ,, (Nant-y-car)	M ,, ,, ,, ..	5	1	0	1545	1839	72·39	..
† ,, ,,(EsgairGarthen)	M ,, ,, ,, ..	5	1	0	1600	1633	*64·27*	..
D† ,, ,, (Elan Village) ..	,, ,, ,, ..	5	1	0	700	1304	51·35	199
RADNOR. (Area, 474 sq. mi.)								
1.—*WYE.* 424 *sq. mi.*								
D Boughrood Castle	(R)Hon. F. G. Morgan	8	1	0	400	857	33·75	133
D Glasbury-on-Wye(HamptonSc.)	Rev. D. C. Lloyd	5	1	0	274	943	37·14	171
Welfield [Builth]	Capt. E. A. Thomas	5	1	10	740	956	37·65?	..
Builth Road(St.John'sVicarage)	Rev. J. L. Bryans	5	0	11	550	975	38·38	190
D Llandrindod Wells(Kimberley)	W.B.deWintonEsq.C.I.E.	5	1	0	699	916	36·08	210
New Radnor (Ednol)	MDr. H. R. Mill	5	1	10	951	890	35·04	..
D Presteign (St. Davids)	Dr. N. Y. Lower	5	1	0	500	869	34·20	192
,, (Norton Manor Gdns.)	Mr. Wilson Palliser	5	1	6	617	910	35·81	..
D†BirminghamW.W.(Tyrmynydd)	E. Antony Lees, Esq. ..	5	1	0	832	1387	54·62	200
D† ,, ,, (Nantgwillt) .	,, ,, ,, ..	5	1	0	845	1438	56·61	204
† ,, ,, (Dwfnant) ..	,, ,, ,, ..	5	1	0	1050	1608	63·30	..
† ,, ,, (EsgairGader)1	M ,, ,, ,, ...	5	1	0	1500	1546	*60·85*	..
,, ,, (,, ,,) No.2	M ,, ,, ,, ...	5	1	0	1500	1650	64·98	..
D† ,, ,, (Claerwen) ..	,, ,, ,, ...	5	1	0	1250	1793	70·60	203
D† ,, ,, (Tynant)....	,, ,, ,, ...	5	1	0	1250	1404	55·28	205
Rhayader	,, ,, ,, ...	5	1	0	700	1180	46·47	..
,, ...	John Jones, Esq. *per* M.O	..	..		757	1073	42·24	196
,, (Vicarage)....	Rev. George Roberts ...	5	1	0	740	1216	47·86	149
†Birm'ghamW.W.(Cerrigllwydion)	ME. Antony Lees. Esq. ..	5	1	0	1700	1764	69·45	.
† ,, ,, (Pen-y gareg)	M ,, , ,, ...	5	1	0	1500	1347	53·05	..
† ,, ,, (Caiettwr) ..	M ,, ,, ,, ...	5	1	0	1500	1616	*63·64*	..
,, ,, (Figin) No. 1..	M ,, ,, ,, ...	5	1	0	1700	1936	*76·23*	..
,, ,, (,,) No. 2..	M ,, ,, ,, ...	5	1	0	1700	1095	*78·54*	..
,, ,, (Aberhenllan)	M ,, ,, ,, ...	5	1	0	1250	1374	*54·10*	..
Llanbister (Llananno)	Dr. H. R. Mill	5	1	0	900	1057	41·60	..
2.—*SEVERN—Right Bank Tributaries.* 50 *sq. mi.*								
Knighton (Upper Woodhouse) .	S. Wilson, Esq.	5	1	0	850	812	31·95	..
MONTGOMERY. (Area, 797 sq. mi.)								
1.—*DOVEY.* 120 *sq. mi.*								
D Machynlleth (The Plas)	Mr. A. Gribble	5	1	0	41	1471	57·91	196
2.—*YSTWYTH.* 7 *sq. mi.*								
3.—*WYE.* 37 *sq. mi.*								
D Llangurig (Dernol)	Dr. H. R. Mill	5	1	0	870	1265	49·79	195
4.—*SEVERN—Right Bank Tributaries.* 154 *sq. mi.*								
Llandinam (Plas Dinam)	Mr. D. Bowen	5	3	0	503	811	31·91	171
Dolfor (Old Court)	S. Wilson, Esq.	5	1	0	1050	749	29·47	..
Bishops Moat [Bishops Castle]	,, ,, ...	5	1	0	1130	769	30·27	..

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	MONTGOMERY—(*con*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	4.—*SEVERN—Right Bank Tributaries—(con.)*								
D	Newtown (Penarth Weir)	G. R. Jebb, Esq., C.E.	8	1	0	321	783	30·81	214
D	Welshpool (Edderton Hall)	Miss A.M.Howell Evans	5	1	0	500	659	25·94	173
	5.—*SEVERN—Left Bank Tributaries.* 479 *sq. mi*								
	Berriew (Rhiewport Gardens)	Mr. E. Jones	5	1	0	370	784	30·85	..
	,, (Brithdir Hall)	F. E. Marston, Esq.	5	2	0	350	690	27·17	162
	Welshpool (County School)	W. D. Lewis, Esq.	5	1	0	252	691	27·22	194
	Garthbibio (Bwlch Tomlyd)	MDr. H. R. Mill	5	1	0	1370	1582	62·30	..
	Llandysilio Rectory	Rev. H. G. Dickinson	5	1	0	225	651	25·64	..
D	Lake Vyrnwy	E. J. Bradley, Esq.	5	0	7	770	1218	47·95	185
	,, ,, (Bryn Gwyn)	J. R. Davidson, Esq., C.E.	3	1	0	1311	1098	43·23	..
D	,, ,, (BankCynonIsaf)	,, ,, ,,	3	1	0	750	1150	45·27	186
	,, ,, (Ty Uchaf)	,, ,, ,,	3	1	0	860	1196	47·09	..
	,, ,, (Heol-y-ffridd)No1	,, ,, ,,	3	1	0	912	1626	64·01	..
	,, ,, (,, ,, ,,)No2	,, ,, ,,	3	1	0	912	1484	58·42	..
	,, ,, (Tyn-y-ffridd)	,, ,, ,,	3	1	0	1010	1115	43·88	..
	,, ,, (Lluestwen)	,, ,, ,,	3	1	0	1667	1346	52·98	..
	,, ,, (Liwynrhiw)	,, ,, ,,	3	1	0	1428	1626	64·00	..
	,, ,, (Craig-y-Gribbin)	,, ,, ,,	3	1	0	1100	1293	50·89	..
	,, ,, (Eunant Bridge)	,, ,, ,,	3	1	0	830	1535	60·42	..
	,, ,, (Carreg Goch)	,, ,, ,,	3	1	0	1750	1606	63·25	..
	,, ,, (Fawnog)	,, ,, ,,	3	1	0	1315	1150	45·28	..
	FLINT. (Area, 256 sq. mi.)								
	1.—*DEE.* 198 *sq. mi.*								
D	Hanmer (Gredington)	Lord Kenyon, K.C.V.O.	5	0	10	300	787	30·97	161
D	Overton (Fairleigh)	B. J. E. Wright, Esq.	5	1	8	220	655	25·78	175
	Buckley	W. Simmons, Esq.	5	1	0	555	790	31·12	..
	Cilcain	,, ,, ,,	5	1	0	790	801	31·55	192
	Hawarden	Great Central Rly. Co.	9	3	6	35	697	27·45	163
D	Queen's Ferry (H M.Factory)	Godfrey De Lisle, Esq.	8	1	0	17	675	26·57	152
	Northup (Soughton Hall)	Lord Justice Bankes	5	1	0	418	869	34·23	166
D	Hawarden Bridge	T. T. Sill, Esq.	8	1	3	22	641	25·24	161
D	Mostyn Vicarage	Rev.W.Vaughan-Jones	5	1	0	100	848	33·39	209
	2.—*CLWYD.* 51 *sq. mi.*								
	Bodfari (Nantlys)	D. F. Pennant, Esq.	5	1	4	173	770	30·30	177
D	,, (Cae Gwyn)	Mrs. Morgan	5	0	5	542	798	31·41	184
	St. Asaph (St. Beuno's College)	St. Beuno's College	8	1	0	480	848	33·38	202
	Dyserth Castle	J. B. Price, Esq.	5	0	6	350	655	25·78	..
D	Rhyl (Sewage Works)	Dr. A. Eyton Lloyd	8	1	0	31	744	29·29	194
	3.—*SEVERN—Left Bank Tributaries.* 7 *sq. mi.*								
	DENBIGH. (Area, 668 sq. mi.)								
	1.—*DEE.* 270 *sq. mi.*								
D	Chirk Castle Gardens	Mr. James Vert	5	1	2	625	833	32·80	162
D	Ruabon (Whitehurst)	,, ,, ,,	5	1	1	327	778	30·63	183
D	Cerrig-y-Druidion(Blch-y-b'dy)1	Col. C. S. Mainwaring	5	1	0	1050	1027	40·44	151
D†	,, ,, (,,) No. 2	,, ,, ,,	5	1	0	1050	1075	42·32	152
D	,, ,, (,,) No. 3	,, ,, ,,	8	1	0	1050	1041	40·97	151

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
DENBIGH—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*DEE*—(*con.*)								
Wrexham (Ty Mawr Reservoir)	F. Storr, Esq., C.E. ..	5	0	9	805	993	39·11	155
,, (Pack Saddle Res.)..	,, ,, ,, ..	5	0	9	370	891	35·10	185
,, (Cae Llwyd Res.) ...	,, ,, ,, ..	8	0	9	918	1073	42·23	155
,, (,, ,,) ...	,, ,, ,, ...	5	0	9	918	1027	40·44	155
D ,, (Broughton)	J. Hall, Esq.	5	1	0	500	903	35·56	186
D†Cerrig-y-Druid'n(H'f'd-llanis'f)1	J. H. Parkin, Esq.	5	1	0	1200	978	38·50	185
D† ,, ,, (,, ,, ,,)2	,, ,, ,, ...	5	1	2	1200	993	39·09	184
D ,, ,, (,, ,, ,,)3	,, ,, ,, ...	5	1	0	1200	868	34·16	186
†Pentre Voelas (Nant Heilyn) .	,, ,, ,, ...	5	1	0	1225	1152	*45·36*	..
D†Cerrig-y-Druid'n (H'f'd-yr-Onen)	,, ,, ,, ...	5	1	0	1175	1059	41·70	213
†Nantglyn (Pant-y-maen) ...	M ,, ,, ,, ...	8	1	0	1320	1269	49·95	..
†Llyn Bran	M ,, ,, ,, ...	8	1	0	1428	1265	49·81	..
2.—*CLWYD & C.* 267 *sq. mi.*								
D Gyffylliog (Fachlwyd Hall) ..	Eliott S. Currey, Esq. .	5	1	0	640	1010	39·76	222
D Ruthin (Tymawr)	Maj.-Gen. C. L. Cary ...	5	1	0	400	747	29·43	183
D ,, (Plas Llangwyfan) ...	J. R. Lloyd, Esq.	5	1	0	..	744	29·27	170
D ,, (Llanbedr Hall)	lateDr.G.A.Crace-Calvert	5	1	0	451	765	30·13	178
D Llangerniew (Hafodunos)	Col. T. Gee	5	2	6	512	1138	44·81	147
Llanefydd (Rhyl W.W., S.).	ML. G. Hall, Esq., C.E....	5	1	0	600	841	33·12	..
,, (,, ,, W.)	M ,, ,, ,, ..	5	1	0	580	752	29·60	..
D ,, (Plas Uchaf Res.) ..	,, ,, ,, ..	5	1	0	485	731	28·79	149
D ,, (Glascoed Reservoir)	,, ,, ,, ..	5	1	0	360	786	30·95	182
D Llangynhafal (Plâs Drâw)	Col.C.J.Bromhead, C.B.	5	1	0	419	872	34·32	215
D†Denbigh (Asylum)............	W. Barker, Esq.	5	0	10	316	814	32·06	181
D ,, (Garn)	W. D. W. Griffith, Esq.	5	1	0	447	882	34·72	192
Trefnant (Maes Elwy)	Mrs. R. F. Birch	5	1	3	150	713	28·09	..
Wygfair [St. Asaph]	(R)Col.H.R.L.Howard,C.B.	8	2	6	250	896	35·29	..
D Colwyn Bay (Council Offices)	W. Jones, Esq., C.E. ..	8	1	0	82	828	32·59	154
3.—*CONWAY.* 84 *sq. mi.*								
D Pentre Foelas (Voelas Hall) ..	Mr. T. Dickie	5	1	3	640	1216	47·87	*163*
D†Llanrwst (County School)	Rev. J. I. Farr	5	1	4	55	1086	42·77	188
D Tal-y-cafn (Bodnant Hall).....	Mr. George Gurney	8	1	6	120	820	32·29	181
4.—*SEVERN—Left Bank Tributaries.* 47 *sq. mi.*								
D Llangadwaladr(Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1	0	1094	822	32·35	193
MERIONETH. (Area, 661 sq. mi.)								
1.—*DEE.* 218 *sq. mi.*								
†Bala (Eryl Aran)	Mrs. Burton	8	1	0	600	1367	53·82	190
†Llanderfel (Palé Gardens)	Mr. E. J. Edwards	8	1	0	606	1142	44·95	206
Corwen (Rûg Gardens)	Mr. W. B. Burchill ...	8	1	2	500	1065	41·94	..
2.—*CLWYD.* 7 *sq. mi.*								
3.—*GLASLYN.* 92 *sq. mi.*								
D Tan-y-bwlch (The Gardens) ..	Mr. J. Roberts	5	1	0	50	1802	70·96	211
,, (Dol-y-Moch) ...	Mrs. Howland Jackson .	5	0	6	..	1713	67·45	216
†Blaenau Festiniog(Oakley Q.)..	R. H. Jones, Esq.	5	10	0	1100	2424	95·44	..
D ,, ,, (LlechweddQ.)	Mssrs.J.W.Greaves&Sns.	5	1	0	770	2689	105·86	237
4.—*MAWDDACH & C.* 262 *sq. mi.*								
D Towyn (Ynys-y-Maengwyn) ...	Roger Corbett, Esq. ...	5	1	0	14	1177	46·33	166
D ,, (Peniarth)	Mrs. Wynne	8	1	0	25	1276	50·25	195

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	MERIONETH—(*con.*)								
	4.—*MAWDDACH & C.*—(*con.*)								
	Dolgeliy (Dr. Williams' School)	Miss F. A. Anstey	5	4	0	43	2006	78·99	185
D	,, (Bryntirion)	E. P. Beale, Esq.	5	0	10	50	1721	67·76	190
	5.—*DOVEY.* 82 *sq. mi.*								
	Aberdovey	R. Williams, Esq. *per* M.O.	5	1	0	22	1047	41·22	183
D	,, (Plas Penhelig)	J. M. Howell, Esq.	5	1	6	130	1100	43·32	184
D	,, (Froneithyn)	G. M. S. Farmer, Esq.	5	1	0	200	1011	39·82	187
	Pennal (Taigarth Hall)	Frank Gott, Esq.	5	5	0	125	1590	62·59	169
	6.—*SEVERN—Left Bank Tributaries.*								
	CARNARVON. (Area, 572 sq. mi.)								
	1.—[*BARDSEY ISLAND.*]								
	[Bardsey Island]	Hon. F.G. Wynn	5	1	0	40	827	32·56	..
	2.—*CONWAY & C.* 146 *sq. mi.*								
	Penmachno (Nant-y-Crogwyn)	Mr. Idwal Pritchard	5	1	0	800	1820	71·65	..
	Snowdon (Pen-y-Gwryd)	No.13A. Lockwood, Esq.	5	2	0	916	3078	121·18	..
†	Lake Cowlyd (LlethyrGwyn) C	C. F. Farrington, Esq.	5	1	0	1700	1691	66·58	..
†	,, ,, (Gors-y-Llithrig) D	,, ,, ,,	5	1	0	1900	1916	75·44	..
†	,, ,, (Ffrith Fawr) B	,, ,, ,,	5	1	0	1700	1811	71·31	..
†	,, ,, (,, CarregWen) A	,, ,, ,,	5	1	0	1168	1866	73·47	..
D	Lake Eigiau (Dam Site)	H. J. Jack, Esq.	5	1	0	1245	1916	75·44	187
	Llanbedr-y Cennin (Plasdulyn)	W. T. Ward, Esq.	8	1	0	509	1396	54·95	..
	,, ,, ,, (Llyndulyn)	,, ,, ,,	8	1	6	1632	1998	78·66	..
	Deganwy (Y Berlfa)	(R) Willoughby Gardner, Esq.	5	1	0	35	747	29·43	..
	,, (Bryn Estyn)	Miss A. M. Simpson	5	1	0	100	721	28·39	..
D	Llandudno	W. Little, Esq.	5	1	0	20	677	26·67	180
	3.—*MENAI STRAITS.* 221 *sq. mi.*								
D	Madryn Castle (Farm School)	Dr. A. D. Turner	5	1	0	285	965	38·01	163
	Nantlle (Dorothea Quarries)	MW. J. Griffith, Esq.	8	60	0	460	1501	59·09	..
†	Llandwrog (Glynllivon Park)	Hon. F. G. Wynn	5	1	0	100	1069	42·08	..
†	,, (,, Nursery)	,, ,, ,,	5	1	0	180	1135	44·69	182
†	,, (,, Garden)	,, ,, ,,	5	1	0	100	1062	41·80	..
†	,, (,, Fort)	,, ,, ,,	5	1	0	180	1119	44·07	188
	Carnarvon (Belan Fort)	,, ,, ,,	5	1	0	12	941	37·05	..
	Lake Ogwen C.E. School	R. Hughes, Esq.	10	1	0	1004	2502	98·50	..
D	Llanberis (Bryntirion)	Mr. Emrys Jones	5	1	8	370	1668	65·69	205
D	,, (Brynrefail School)	J. Rees Foster, Esq.	5	1	0	356	1332	52·45	204
	,, (LlandinorwigSchool)	John Roberts, Esq.	5	1	0	850	1248	49·15	*216*
D	Llanrug (Llys Eiddon)	J. Rees Foster, Esq.	5	1	0	400	1109	43·65	188
D	Bethesda (St. Ann's Vicarage)	Rev. W. Morgan	5	2	6	350	1389	54·67	214
D	,, (Penrhyn Quarries)	W. D. Hobson, Esq.	8	1	0	528	1485	58·47	208
D	Bangor (Penryhn Castle Gdns.)	Mr. W. Speed	5	1	0	150	826	32·50	159
D	Aber (College Farm)	Prof. R. G. White	5	1	0	100	1045	41·14	221
D	Llanfairfechan	Mr. W. Timmins	5	1	0	144	936	36·87	168
	Penmaenmawr (Mountain Res.)	R. J. Hughes, Esq.	5	1	6	1200	1014	39·94	..
D	,, (Council Offices)	,, ,, ,,	5	1	6	100	812	31·99	166
	4.—*ERCH & C.* 155 *sq. mi.*								
D	Abersoch	W.H. Winterbotham, Esq.	8	1	0	100	1165	45·88	183
D	Bryncroes (Schoolhouse)	E. R. Williams, Esq.	5	0	11	320	1131	44·52	165
	Pwllheli (Bodfean Hall)	Hon. F. G. Wynn	5	1	0	200	1113	43·83	..
	,, (,, ,, Gdns.)	,, ,, ,,	5	3	0	200	1114	43·86	175

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		SeaLevel			
CARNARVON—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
5.—*GLASLYN.* 50 *sq. mi.*								
Beddgelert (Council School)	..David Jones, Esq.......	5	1	0	133	2332	91·82	162
Snowden (Wenallt)	No. 6A. Lockwood, Esq.	5	1	2	1050	3143	123·74	..
,, (Cwm Dyli)	No.11 ,, ,, ,, ...	5	1	0	310	2557	100·67	228
,, (Old Road) ...	No.14 ,, ,, ,, ...	5	0	10	325	2552	100·46	..
,, (Lliwedd)	No. 2 ,, ,, ,, ...	5	1	3	1485	3186	125·43	..
,, (Glaslyn)	No. 3 ,, ,, ,, ...	5	0	8	2050	3080	121·25	..
,, (Teyrn)	No. 1 ,, ,, ,, ...	5	1	0	1080	3309	130·28	..
,,(LlynLlydawIntake)	No.10 ,, ,, ,, ...	5	1	0	1480	3084	121·40	..
,, (,, ,,CopperMill)	No. 9B ,, ,, ,, ...	5	1	5	1480	3568	140·49	..
,, (Crib Goch)	No. 8 ,, ,, ,, ...	5	1	3	2340	3423	134·78	..
,, (LlynLlydaw,N.)	No. 5 ,, ,, ,, ...	5	1	0	1470	2678	105·42?	..
ANGLESEY. (Area, 275 sq. mi.)								
Llanddwyn Island............	Hon. F. G. Wynn	5	1	0	24	902	35·50	..
D Dwyran (Menaifron)	W. E. Sotheby, Esq. ..	8	1	0	17	927	36·51	176
D Llanddaniel-Fab (Porthamel)	Hon. Cecil S. Irby......	5	0	9	70	914	35·99	168
D Plas Newydd Gardens	Mr. W. Owen	..	..		..	1051	41·36	190
D†Llangadwaladr (Bodorgan)	Mr. W. Pilgrim	5	1	0	100	1044	41·09	197
D Llangefni	P. T. Creswell, Esq.	8	1	0	189	1096	43·14	184
Beaumaris (Fryars)...........	Mrs. Burton	10	2	0	20	1030	40·56	..
Pennon (Tros-yr-afon)	Dr. J. Hepworth	5	0	9	40	948	37·32	180
D Llangwllog (Trescawen)	JHPritchard-RaynerEsq.	5	1	0	239	1155	45·47	179
†Holyhead (Sailors' Home)	Meteorological Office....	5	1	0	15	976	38·43	177
D Llantrisant Rectory	Rev. Daniel Morgan ...	5	1	6	300	1036	40·80	211
D LlanerchymeddLlwydiarthEsgb.	T. Prichard, Esq.	5	1	6	175	1044	41·10	210
D Lligwy.....................	Lord Boston...........	5	1	0	170	948	37·32	166
Amlwch (Dyffryn Adda)	Major T.Fanning Evans.	5	1	2	178	943	37·11	186
ISLE OF MAN. (Area, 227 sq. mi.)								
Castletown (Langness)	Board ofNorthernLights	8	1	0	75	659	25·96	170
Santon Vicarage	Rev. R. Jones	5	0	10	245	969	38·16	187
Douglashead	Board of NorthernLights	..	..		..	697	27·43	..
†Douglas (Borough Cemetery) ..	A. D. Barron, Esq.	8	1	0	284	1070	42·14	208
D† ,, (Clypse Res., Onchan)	Mr. W. Crebbin	8	1	0	420	1170	46·08	205
Maughold Head..............	Board of NorthernLights	..	..		..	386	15·18?	..
D†Ramsey (Town Hall)	G. W. Kewin, Esq.	8	15	0	18	945	37·19	173
D ,, (North Promenade) ..	,, ,, ,, ...	5	2	0	5	962	37·86	195
Point of Ayre................	Board of NorthernLights	3	4	6	116	697	27·43	..
CHANNEL ISLANDS. (Area, 76 sq. mi.)								
JERSEY. (45 *sq. mi.*)								
D Pontac (St. Edmund's)	Dr. E. G. Barnes	5	1	6	30	698	27·47	172
D Samares (Les Silleries)	V. J. Bailhache, Esq. ..	5	1	9	164	749	29·47	193
D St. Saviour's (Clifton)	C. V. Hawksford, Esq. .	5	3	1	218	795	31·30	184
D†St. Helier (St. Louis Obsy)	Rev. M. Dechevrens, S.J.	8	5	9	180	726	28·59	168
D St. Brelades (La Sergenté).....	J. E. Le Boutillier, Esq..	5	1	6	188	655	25·78	163
†St. Aubins (Railway Station) ..	Meteorological Office ..	8	1	9	25	772	30·40	169
† ,, (Belle Vue)	C. J. Sumner, Esq. ...	5	1	0	220	774	30·49	178
Grouville (Gouray Lodge)	C. V. Hawksford, Esq. .	5	2	6	100	718	28·25	..
D†Millbrook (St. Helier W.W.)	.A. J. Jenkins,Esq., C.E..	5	0	11	52	790	31·09	162

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
CHANNEL ISLANDS—(*con.*)								
JERSEY—(*con.*)								
St. Lawrence (Fontenelle)	P. A. Gore, Esq.	5	1	0	200	864	34·01	..
St. Ouen's Manor	R. Malet de Carteret, Esq	5	2	0	270	773	30·44	164
Trinity Rectory	C. V. Hawksford, Esq.	5	2	6	410	825	32·49	163
GUERNSEY. (25 *sq. mi.*)								
D†St. Martins (Les Blanches)	B. T. Rowswell, Esq.	5	1	0	310	742	29·23	179
† ,, (Hautnez)	A. Collenette, Esq.	5	0	8	343	787	31·00	193
†Villiaze	,, ,, ,,	5	0	6	337	774	30·46	197
D†St. Saviours (Le Mont Saint)	S. Carey Curtis, Esq.	5	1	0	105	652	25·68	148
D†St. Peter Port (St. Martin's Rd.)	A. Colleuette, Esq.	5	1	0	295	808	31·83	221
D† ,, ,, (Market Street)	B. T. Rowswell, Esq.	5	52	8	100	766	30·16	162
D† ,, ,, (Villa Carey)	Dr. F. E. Carey	8	1	6	180	772	30·39	189
D† ,, ,, (Rohais)	T. J. Guilbert, Esq., C.E.	5	1	0	124	762	30·00	233
D Castel (St. George)	Rev. H. G. deC. S. Guilie	5	0	10	120	687	27·05	*209*
SARK. (2 *sq. mi.*)								
D Pointe Robert	B. T. Rowswell, Esq.	5	1	0	215	651	25·62	176
HERM. (1 *sq. mi.*)								
ALDERNEY. (3 *sq. mi.*)								
D Le Huret	B. T. Rowswell, Esq.	5	1	0	245	666	26·22	184

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	WIGTOWN. (Area, 488 sq. mi.)								
	1.—*LOCH RYAN* 46 *sq. mi.*								
	Loch Ryan Lighthouse	Board of Northern Lights	..	..		46	789	31·08	..
	2.—*WESTERN GALLOWAY.* 44 *sq. mi.*								
	Mull of Galloway	Board of Northern Lights	..	..		327	648	25·51	..
D	Logan House	K. McDouall, Esq.	8	1	0	80	986	38·84	240
	Corsewall	Board of Northern Lights	..	3	4	112	941	37·06	..
	3.—*LUCE BAY.* 186 *sq. mi.*								
D	Stoneykirk (Ardwell House)	Sir M. McT. Stewart, Bt.	8	2	4	65	926	36·44	203
D	Luce Bay	J. H. Grills, Esq.	8	1	0	50	1012	39·85	212
D	Glenluce (Crews)	Peter Taylor, Esq.	5	1	9	218	1017	40·05	160
	4.—*CREE & WIGTOWN BAY.* 212 *sq. mi.*								
D	Whithorn (Cutroach)	J. G. Martin, Esq.	5	0	6	120	969	38·17	180
D	,,	Dr. J. F. Smith	5	0	8	207	1212	47·70	200
	Garliestown (Galloway House)	Mr. J. R. Crosbie	5	3	9	20	769	30·26	..
	KIRKCUDBRIGHT. (Area, 902 sq. mi.)								
	1.—*DOON.* 16 *sq. mi.*								
	2.—*CREE & WIGTOWN BAY.* 222 *sq. mi.*								
	Gatehouse (Cally)	Col. F. M. Baillie, *per* MO S.	5	1	0	120	1176	46·32	189
	Creetown (Cassencary)	J. A. Henryson-Caird, Esq.	5	0	8	50	1005	39·57	195
	Palnure (Bargaly)	Mrs. Colvin Stewart *per* SMS	8	3	5	50	1274	50·14	..
	3.—*DEE.* 377 *sq. mi.*								
	Little Ross Lighthouse	Board of Northern Lights	..	3	3	175	744	29·29	166
	Kirkcudbright (Balmae)	The Countess of Selkirk	5	0	8	150	1038	40·85	..
D	Dalry (Glendarroch)	Miss M. Barbour	5	0	11	192	1288	50·70	213
D	Carsphairn (Shiel)	Mr. S. Wilson	5	1	0	850	1739	68·47	223
D	,, (Knockgray)	Miss Clark Kennedy	8	0	11	641	1212	47·70	193
	4.—*URR & C.* 196 *sq. mi.*								
	Auchencairn (Torr House)	W. Ovens, Esq.	5	0	8	50	1173	46·18	..
D	Dalbeattie (Kirkennan)	Wellwood Maxwell, Esq.	5	0	9	30	1124	44·26	205
D	Kirkpatrick Durham (Glenlair)	Mrs. Wedderburn Maxwell	5	0	6	250	1211	47·68	169
D	Corsock (Monybuie)	Mrs. E. Stirton	5	1	0	620	652	25·65	167

DIVISION XII.—SOUTHERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	KIRKCUDBRIGHT—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	5.—*NITH & C.* 91 *sq. mi.*								
D	Cargen [Dumfries]	Col. R. F. Dudgeon	5	0	10	80	1096	43·14	207
D	Lochrutton (Dumfries W.W.)	J. Smellie, Esq.	5	1	0	273	1069	42·07	195
D	Lincluden House [Dumfries]	Miss Young	5	1	0	60	1007	39·63	183
D	Jardington [Dumfries]	J. Rutherford, Esq.	5	1	0	50	992	39·07	197
	DUMFRIES. (Area, 1074 sq. mi.)								
	1.—*CLYDE—Right Bank Tributaries.* 5 *sq. mi.*								
	2.—*URR.* 6 *sq. mi.*								
	3.—*NITH & C.* 421 *sq. mi.*								
D	Ruthwell (Comlongan Castle)	Mr. W. Brown	5	1	0	74	895	35·25	176
D	Dumfries (Crichton Roy. Inst.)	Mr. E. Joss	5	1	0	155	821	32·32	189
	Moniaive (Glencrosh)	Miss Macmillan	5	1	2	350	1271	50·06	195
D	,, (Maxwelton House)	SirClaudeVELaurie,Bart.	5	1	6	400	1092	43·01	237
	,, (Jarbruck)	Cecil E. Laurie, Esq.	8	1	2	350	1318	51·91	219
D	Thornhill (Grovehill)	J. S. Rankin, Esq.	5	1	0	205	1316	51·80	206
D	Durrisdeer(Drumlanrig Gardns.)	Mr. D. Inglis, *per* S.M.S.	5	0	9	191	1102	43·40	145
	4.—*ANNAN.* 367 *sq. mi.*								
	Dalton (Whitecroft)	W.Maitland-Heriot, Esq.	5	0	6	240	1115	43·89	..
D	Hoddam Castle	E.J.Brock,Esq.,*per*S.M.S	5	1	4	150	1002	39·46	193
	Ecclefechan (Knockhill)	HnMrsJohnsonFergusson	5	0	9	150	972	38·28	..
	,, (Burnfoot)	Major H. C. Irving	5	0	10	160	1017	40·06	..
D	Dalton (School House)	P. C. Copland, Esq.	5	1	0	175	1056	41·59	207
D	,, (Kirkwood)	Arthur J. Steel, Esq.	5	0	8	245	1110	43·71	228
D	Lockerbie (Castle Milk)	Mr. J. T. Jeffrey	5	1	6	199	1055	41·55	183
D	Lochmaben (Esthwaite)	W. J. Halliday, Esq.	5	1	0	166	1015	39·98	192
D	Amisfield (Glenae)	H. Sharpe Gordon, Esq.	5	0	11	300	916	36·08	144
	Beattock (Road Exper. Station)	R. Paterson, Esq.	5	1	0	345	1022	40·22	..
	Moffat (Craigielands)	late Bertram Smith,Esq.	5	1	0	334	1110	43·72	..
D	,, (Auchen Castle)	Mr. J. Macgregor	5	0	6	506	1166	45·91	200
	5.—*ESK.* 275 *sq. mi.*								
	Canonbie (Byreburnfoot)	Mr. David Crabbe	3	0	9	160	1060	41·75	..
D	,, (Irvine House)	J. H. Milne Home, Esq.	5	0	6	200	1145	45·07	189
D	Langholm (Drove Road)	Mrs. Jackson	5	0	9	270	1297	51·05	174
	,, (Craig)	J. Little, Esq.	5	1	0	450	1238	48·76	..
	,, (Ewes, Burnfoot)	R. E. Little, Esq.	5	0	6	541	1156	45·52	..
	,, (,, School)	Mrs. Lyall	5	1	0	445	1263	49·72	..
	Eskdalemuir Observatory	Meteorological Office	11	2	0	799	1408	55·43	214
D	,, ,,	,, ,, ,,	8	1	0	798	1406	55·38	214
	ROXBURGH. (Area, 666 sq. mi.)								
	1.—*NORTH TYNE.* 6 *sq. mi.*								
	2.—*TWEED, LOWER—Right Bank Tributaries.* 57 *sq. mi.*								
	Kelso (Springwood Nurseries)	Messrs. Laing & Mather.	5	1	0	200	752	29·62	193
	3.—*TWEED—Teviot & c.* 431 *sq. mi.*								
	Hawick (Wolfelee)	W.SteedmanEsq.*per*MOS	5	0	10	587	1061	41·78	230
	,, (Branxholme)	J. G. Winning, Esq.	5	0	6	457	833	32·78	207
	Lilliesleaf School	*The Scotsman*	..	..		500	667	26·26	..
D	Ancrum (Monteviot)	Bertram Talbot, Esq.	5	4	0	300	793	31·23	144
D	Jedburgh (Ploughlands)	J. Scott, Esq.	5	1	0	301	697	27·45	193
	Roxburgh (Sunlaws)	Mr. J. Kirk	5	0	9	251	809	31·83	..

DIVISION XII.—SOUTHERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
	ROXBURGH—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*TWEED—Teviot & c.*—(*con.*)								
	St. Boswells (Monksford)	Col. A. Mitchell	5	0	11	320	694	27·33	..
D	„ „ (The Fens)	J. J. Fairbairn, Esq.	5	1	6	260	670	26·37	154
	Kelso (Springwood Park)	Mr. W. Chaplin	5	1	3	130	753	29·63	174
	4.—*TWEED—Ettrick & c.* 10 *sq. mi.*								
D	Melrose (Asylum) A	Mr. A. C. Pattman	5	0	6	480	866	34·10	228
D	„ („) B	„ „ „	5	1	0	480	804	31·67	228
	5.—*TWEED—Gala.* 6 *sq. mi.*								
	6.—*TWEED—Leader & c.* 25 *sq. mi.*								
D	Melrose (Drygrange)	T. J. S. Roberts, Esq.	5	1	0	360	694	27·33	170
	7.—*TWEED, LOWER—Left Bank Tributaries.* 25 *sq. mi.*								
D	Kelso (Broomlands)	J. C. Scott, Esq.	5	1	0	193	650	25·60	162
	Smailholm (Sandyknowe)	Mr. J. E. Templeton	5	1	2	500	616	24·25	..
	8.—*ESK.* 106 *sq. mi.*								
	DIVISION XIII.—SOUTH EASTERN COUNTIES.								
	SELKIRK. (Area, 268 sq. mi.)								
	1.—*TWEED—Teviot & c.* 34 *sq. mi.*								
	Selkirk (Whitmuir Hall)	C. W. Dunlop, Esq.	5	1	0	800	789	31·07	..
	2.—*TWEED—Ettrick & c.* 192 *sq. mi.*								
	EdinburghW.W.(Meggat Hd.) 1	Messrs.Leslie & Reid C.E.	5	1	3	1496	1189	46·80	..
D	Selkirk (The Hangingshaw)	Miss Johnstone of Alva	5	0	6	670	785	30·92	151
	„ (Lindean Reservoir)	S. Pittillo Esq.	5	1	0	900	712	28·04	..
	3.—*TWEED UPPER—Right Bank Tributaries.* 17 *sq. mi.*								
	4.—*TWEED UPPER—Left Bank Tributaries.* 19 *sq. mi.*								
D	Caddonfoot (Fairnilee)	Mr. T. Brown	5	1	0	450	735	28·92	147
	Galashiels(ThePeel Clovenfords)	W. R. Ovens Esq.	6	1	6	500	785	30·89	..
	5.—*TWEED—Gala.* 6 *sq. mi.*								
D	Galashiels (Abbotsford Rd.)	Dr. J. W. Somerville	5	0	8	416	670	26·39	168
	„ (Stantling Craigs)	Mr. J. Murray	12	1	3	800	778	30·64	..
	PEEBLES. (Area 348 sq. mi.)								
	1.—*TWEED UPPER—Right Bank Tributaries.* 127 *sq. mi.*								
	EdinburghW.W.(Ravenscraig) 3	Messrs.Leslie&Reid C.E.	5	1	3	2258	1947	76·66	..
	„ „ (GameshopeLoch) 4 M	„ „ „	5	1	3	1860	1662	65·42	..
	„ „ (LochCraigHead) 2 M	„ „ „	5	1	0	2627	1505	59·25	..
D	„ „ (Gameshope Farm) 5A	„ „ „	5	1	3	1538	1555	61·24	206
	„ „ („) No. 5M	„ „ „	8	1	3	1538	1499	59·02	..
D	„ „ (TallaLinnsFoot) 6A	„ „ „	5	1	3	966	1363	53·68	238
	„ „ („ „ „) No. 6 M	„ „ „	8	1	3	966	1326	52·19	..
D	„ „ (Quarter Hill) No. 7A	„ „ „	5	1	3	1196	1045	41·16	215
	„ „ („ „) 7M	„ „ „	8	1	3	1196	992	39·06	..
D	„ „ (Victoria Lodge) No. 8	„ „ „	5	1	3	904	1119	44·05	219
	„ „ („ „) 8A M	„ „ „	8	1	3	904	1018	40·07	..
	2.—*TWEED, UPPER—Left Bank Tributaries.* 192 *sq. mi.*								
	Stobo Castle	J. Ainslie, Esq. *per*S.M.S.	5	1	0	590	830	32·69	..
	Innerleithen (Glen)	Mr. A. Black, *per*M.O.S.	..	..		750	854	33·64	184
D	Castlecraig [Dolphinton]	JamesMannEsq.*per*S.M.S	..	..		820	798	31·40	184
D	West Linton (Woodlee Cottage)	Messrs.Leslie&Reid, C.E.	5	1	0	801	781	30·76	221
D	„ „ (Dalziel House)	Dr. J. R. Jeffrey	5	1	0	770	881	34·68	180

DIVISION XIII.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
			Diam.	Height Above Ground		SeaLevel	1917		
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	PEEBLES—(*con.*)								
	3.—*ESK.* 23 *sq. mi.*								
D	Eddlestone (Portmore Res.)	Messrs.Leslie&Reid,C.E.	11	1	0	1000	790	31·11	183
	,, (,, ,,) M	,, ,, ,,	11	1	0	1007	779	30·67	..
	N. Esk Reservoir [Penicuick]	Mr. W. Tod	11	0	6	1150	926	36·45	..
	4.—*CLYDE—Right Bank Tributaries.* 6 *sq. mi.*								
	BERWICK. (Area, 457 sq. mi.)								
	1.—*TWEED—Gala.* 6 *sq. mi.*								
	2.—*TWEED—Leader.* 92 *sq. mi.*								
	Earlston (Cowdenknowes)	Mr. J. Smith, *per* S.M.S.	5	0	10	360	731	28·79	..
	Lauder (Burncastle)	J. S. S. Turnbull, Esq	5	1	0	900	805	31·70	..
	Earnscleugh Burn(BlytheRig) M	,, ,, ,,	5	1	0	1200	812	31·97?	..
	3.—*TWEED, LOWER—Left Bank Tributaries.* 115 *sq. mi.*								
	Coldstream (Lochton)	J. Aitchison, Esq.	5	1	0	151	734	28·91	..
	,, (The Hirsel)	Mr. D. Black	5	1	0	94	667	26·25	..
D	Swinton House......*Snowdon*	A. E. Swinton, Esq.	5	1	0	200	660	25·97	186
D	,, ,,	,, ,, ,,	5	0	10	200	655	25·79	185
	4.—*TWEED—Whiteadder.* 164 *sq. mi.*								
D	Marchmont House	Mr. J. A. Wood	5	1	0	498	847	33·33	176
D	Dens Castle	Mr. P. Smith	5	3	0	500	767	30·19	188
	,, (Manderston)	Mr. F. J. Marshall	5	1	6	356	768	30·23	..
	West Foulden	J. Hewat Craw, Esq.	5	1	0	240	661	26·01	..
	5.—*EAST COAST STREAMS.* 80 *sq. mi.*								
	St. Abb's Head	Board of NorthernLights	8	4	3	224	673	26·50	..
	HADDINGTON. (Area, 267 sq. mi.)								
	1.—*TWEED—Leader.* 1 *sq. mi.*								
	2.—*TWEED—Whiteadder.* 35 *sq. mi.*								
	3.—*EAST COAST STREAMS.* 69 *sq. mi*								
	Garvald (Donolly Reservoir)	A G.Merriles,Esq., C.E.	5	1	6	600	868	34·19	..
	,, (Thorter Reservoir)	,, ,, ,,	5	1	6	700	635	25·01	..
D	Prestonkirk (Ninewar)	W S. Curr, Esq.	5	1	0	120	560	22·05	157
	Barnsness Lighthouse	Board of Northern Lights	..	..		120	560	22·03	..
	4.—*TYNE & C.* 114 *sq. mi.*								
	LammermuirHills(WansideR.)	AW.AllanCarter,Esq.,C.E.	5	1	0	998	604	23·77	..
	,, ,, (,, ,,) B	,, ,, ,,	5	1	0	950	741	29·17	..
D	Prestonkirk (Knowes)	Mr. J. Rattray	5	1	0	78	613	24·15	172
	,, (Smeaton)	SirABuchan-Hepburn	7	7	10	100	604	23·80	..
D	East Fortune	A. D. Macdonald, Esq.	8	1	0	85	587	23·12	175
	5.—*FIRTH OF FORTH.* 48 *sq. mi.*								
	Drummore [Musselburgh]	Miss Aitchison,*per*S.M.S.	5	1	0	75	574	22·59	..
D	Gullane (The Warren)	H. E. Meek, Esq.	8	1	0	115	598	23·55	205
D	North Berwick Reservoir	A. G. Merriles Esq.,C.E.	5	1	6	150	554	21·83	154
	6.—*INSULAR.*								
	MIDLOTHIAN. (Area, 369 sq. mi.)								
	1.—*TWEED—Gala.* 68 *sq. mi.*								
	Stow (Cragdale)	A. L. Pringle, Esq.	5	0	6	642	756	29·75	..
	2.—*TYNE.* 28 *sq. mi.*								

DIVISION XIII.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
			Diam.	Height Above Ground		SeaLevel	1917		
	MIDLOTHIAN—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*FIRTH OF FORTH.* 3 *sq. mi.*								
D	**Oxenfoord Castle Gardens**	Mr. A. C. Scott	5	1	2	450	746	29·37	177
D	**Musselburgh (Levenhall)**	Miss C. Husband	5	1	0	15	548	*21·58*	*192*
	4.—*ESK.* 116 *sq. mi.*								
	Moorfoot Hills (Bowbate).... M	Messrs. Leslie&ReidC.E.	11	0	6	1260	1191	46·88	..
D	,, ,, (GladhouseRes.)	,, ,, ,, ..	5	0	8	915	914	37·15	233
	,, ,, (,, ,,) M	,, ,, ,, ..	8	1	0	915	916	36·06	..
D	,, ,, (Rosebery) ..	,, ,, ,, ..	4	0	9	750	842	33·16	213
	,, ,, (,,) ..M	,, ,, ,, ..	11	0	9	750	775	30·50	..
D	,, ,, (Edgelaw)	,, ,, ,, ..	4	0	10	654	845	33·27	212
	,, ,, (,,) .. M	,, ,, ,, ..	11	0	10	654	785	30·90	..
D	**Penicuick** (Brunstane Cottage)	,, ,, ,, ..	5	1	0	809	858	33·77	201
	Gorebridge (Deanbank)	A.WilsonSpalding, Esq.	5	1	0	500	655	25·77	..
	Pentland Hills (Harehill)	Messrs. Leslie&Reid,C.E.	11	1	7	1297	825	32·48	..
D	,, ,, (Martyrs Cross)	,, ,, ,, ..	5	1	0	759	811	31·93	219
D	,, ,, (Loganlea) ...	,, ,, ,, ..	5	1	0	811	874	34·42	190
	,, ,, (,,) ..M	,, ,, ,, ..	8	1	4	813	785	30·90	..
D	,, ,, (Glencorse Fil.)	,, ,, ,, ..	5	1	0	639	820	32·29	191
	,, ,, (,, ,,) M	,, ,, ,, ..	11	1	0	639	839	33·05	..
D	,, ,, (Glen Cottage)..	,, ,, ,, .	5	1	2	739	853	33·57	193
	,, ,, (,, ,,) M	,, ,, ,, ..	8	1	2	738	853	33·60	..
D	**Milton Bridge** (Bush)	J. S. Abernethy, Esq....	5	1	0	600	787	30·98	190
	Newbattle (Public School)	W. Fowler, Esq.	5	4	3	300	642	25·28	..
	Dalkeith Gardens	Mr. J. Whytock........	5	1	0	144	580	22·83	..
	Musselburgh (Pinkieburn)	Mr. G. Wright,*per* S.M.S.	..	..		50	555	21·86	..
	5.—*ALMOND & C.* 153 *sq. mi.*								
D	**Pentlands** Hills (Crosswood) .	Messrs. Leslie&Reid,C.E.	5	1	0	950	947	37·29	180
	,, ,, (,) M	,, ,, ,, ..	8	1	0	950	942	37·09	..
D	,, ,, (Harperrig)....	,, ,, ,, ..	5	1	0	900	894	35·19	226
	,, ,, (,,) .M	,, ,, ,, ..	8	1	0	900	881	34·69	..
D	,, ,, (Morton)	,, ,, ,, ..	5	1	0	749	925	36·41	239
	West Calder (Addiewell)	Young's Oil Co., Ltd. ...	12	24	3	620	872	34·32	..
D	**Balerno** (Cockburn Hill)	R. Cross, Esq.	5	1	0	767	845	33·26	179
D	**Mid**-Calder (Calder Hall)	T. A. F. Hog, Esq.	5	1	2	400	713	28·08	191
D	**Pentland Hills** (Harlaw Res.) ..	Messrs. Leslie&Reid,C.E.	5	1	0	800	719	28·29	207
	,, ,, (,, ,,) M	,, ,, ,, ..	11	0	9	800	732	28·82	..
	,, ,, (Bonally Res.)	,, ,, ,, ..	11	0	6	1112	813	32·00	..
	,, ,, (ClubbiedeanRes.)	,, ,, ,, ..	4	0	6	773	603	23·75	..
	,, ,, (,, ,,) M	,, ,, ,, ..	11	0	9	733	661	26·02	..
D	,, ,, (Swanston).....	,, ,, ,, ..	5	0	6	550	678	26·71	182
	,, ,, (,,) M	,, ,, ,, ..	11	0	6	550	708	27·87	..
D	,, ,, (Fairmilehead) .	,, ,, ,, ..	5	1	0	590	657	25·88	163
D	**Colinton** (Northfield)	Mr. R. Glass, *per* S.M.S.	..	..		403	678	26·69	179
D	**Pentland** Hills (Firhill Tank) ..	Messrs.Leslie&Reid,C.E.	5	0	6	412	615	24·21	187
D	**Liberton** (Alnwick Hill)	,, ,, ,, ..	5	1	0	407	607	23·88	165
	,, (,, ,,)..... M	,, ,, ,, ..	8	1	0	407	607	23·90	..
	,, (College Garden)	AMcCallum,Esq.*per*SMS	5	1	0	190	531	20·90	..
D	,, (The Inch)	(R)Gen.R.GordonGilmourCB	8	2	9	60	577	22·71	169
D†	**Edinburgh** (Royal Observatory)	Prof.R.A.Sampson,F.R.S	8	1	0	442	536	21·12	164
	,, (Napier Road) ...	John Harrison, Esq.	5	1	2	230	533	20·98	151
D	,, (The Academy)	M.McC. Fairgrieve, Esq..	5	1	0	67	525	20·67	*191*

DIVISION XIII.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	MIDLOTHIAN—(*con.*)								
	5.—*ALMOND & C.*—(*con.*)								
D†	Edinburgh (Univ. Engin. Lab.)	Prof. T. Hudson Beare	5	1	0	227	572	22·50	**202**
†	,, (,, ,, ,,)	M ,, ,, ,,	5	1	0	227	562	22·13	..
D	,, (St. Roque)	HBWaugh,Esq.*per*SMS	..	..		..	614	24·16	**172**
D	,, (City Observatory)	Sir W. Peck	8	1	0	349	514	20·24	**199**
†	,, (Charlotte Square)	Messrs. Leslie&Reid,C.E.	11	1	6	190	510	20·09	..
	,, (,, ,,)	,, ,, ,,	12	63	0	300	391	15·41	..
	Leith (Starbank Park)	Meteorological Office	8	1	8	30	535	21·05	**180**
	,, (Navigation School)	J. Bolam,Esq.,*per*S.M.S.	5	0	5	76	514	20·23	..
D	Davidson's Mains (Broomfield)	Mr. C. Comfort	5	0	10	42	474	18·67	**158**
	6.—*CLYDE—Right Bank Tributaries.* 1 *sq. mi.*								
	LINLITHGOW. (Area, 120 sq. mi.)								
	1.—*ALMOND & C.* 60 *sq. mi.*								
	Uphall (near Bangour) No. 7	MMessrs. Leslie&Reid,C.E.	8	1	4	790	790	31·10	..
	,, (,, ,,) No. 8	M ,, ,, ,,	8	1	5	577	806	31·74?	..
	,, (,, ,,) No. 6	M ,, ,, ,,	8	1	4	680	713	28·06	..
	,, (,, ,,) No. 3	M ,, ,, ,,	8	1	2	711	716	28·20	..
D	,, (Bangour Asylum)	Col. J. Keay	5	1	0	586	718	28·27	..
	,,	Young's Oil Co., Ltd.	8	0	10	380	758	29·85	..
	Kirkliston (Newliston)	Mr. J. Boyd	8	0	10	140	591	23·27	..
D	Dalmeny House	Mr. D. T. Johnston	5	0	8	55	572	22·50	**176**
	2.—*FORTH—Right Bank Tributaries.* 59 *sq. mi.*								
	Bathgate (Boghead House)	Mr. A. Ferguson	5	2	0	500	882	34·71	..
	Torphichen (Lochcote)	MJohn Louden, Esq.	5	0	4	550	778	30·65	..
	Carribber Reservoir	M ,, ,, ,,	5	0	4	400	770	30·33	..
D	Linlithgow (Grange)	H. M. Cadell, Esq.	5	0	6	430	707	27·85	**181**
D	,, (Preston House)	Mr. C. Blair	5	1	0	380	780	30·72	**179**
D	,, Academy	J. Beveridge, Esq.	5	1	0	170	801	31·52	**204**
	,, ,,	M ,, ,, ,,	5	1	0	170	803	31·63	..
	Queensferry (Hopetoun)	Young's Oil Co., Ltd.	8	7	10	327	583	22·97	..
	Bo'ness (Neidpath Cottage)	Mr. J. Grant	5	3	0	200	664	26·16	..
	3.—*CLYDE—Right Bank Tributaries.* 1 *sq. mi.*								

DIVISION XIV.—SOUTH WESTERN COUNTIES.

	LANARK. (Area, 881 sq. mi.)								
	1.—*TWEED, UPPER—Left Bank Tributaries.* 20 *sq. mi.*								
D	Biggar	J. Eunson, Esq.	8	1	0	691	874	34·43	**195**
D	,, (Cambus Wallace)	T. W. M. Watson, Esq.	6	0	6	748	768	30·23	..
	2.—*ALMOND.* 14 *sq. mi.*								
	3.—*FORTH—Right Bank Tributaries.* 9 *sq. mi.*								
	Airdrie (Forrestburn Reservoir)	J. Frew, Esq.	8	0	6	720	1001	39·40	..
	4.—*CLYDE—Right Bank Tributaries.* 378 *sq. mi.*								
	Coulter Reservoir No. 2	W. Ross, Esq., C.E.	11	1	0	..	1145	45·08	..
	,, ,, No. 1	,, ,, ,,	11	1	0	..	1048	41·26	..
	Lamington (Cowgill Reservoir)	J. Chisholm, Esq., C.E.	5	1	0	970	1030	40·57	..
	Biggar (Shieldhill)	MMiss Dunlop	5	1	2	850	814	32·05	..
D	,, (,,)	,, ,,	5	*on roof*		850	727	28·62	**218**
	Lanark (Rhyber Lodge)	R. Swann, Esq.	6	3	0	650	777	30·60	..

DIVISION XIV.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge.			Depth of Rain.		Days with ·01 in. or more
			Height Above Ground		SeaLevel	1917		
LANARK.—(*con.*)		in.	ft.	in.	feet	mm.	inches	
4.—*CLYDE—Right Bank Tributaries*—(*con.*)								
D Cleghorn Gardens ...	Mrs. Eliott Lockhart ...	5	0	6	720	851	33·51	154
Carluke (Coldstream Reservoir)	W. Ross, Esq., C.E.	11	1	0	800	872	34·35	..
,, (Mauldslie Castle)	Mr. D. Bryson	5	1	0	140	714	28·13	..
Wishaw (Orchardlea)	T. Swinnerton, Esq. ..	6	0	11	450	822	32·35	..
Glasgow (Tollcross Park)	J. Whitton, Esq.	5	0	6	85	928	36·54	..
,, Green	,, ,, ,, ...	5	0	6	35	875	34·43	..
,, (Alexandra Park)	,, ,, ,, ...	5	0	6	141	912	35·91	..
D ,, Observatory ...... (R)	J. Connell, Esq.	11	2	0	182	931	36·67	198
,, (Botanic Gardens).....	J. Whitton, Esq.	5	0	6	110	888	34·96	..
,, (Kelvinggrove Park) ...	,, ,, ...	5	0	6	48	905	35·63	..
,, (Victoria Park)	,, ,, ,, ...	5	0	6	..	885	34·85	..
,, (Ruchill Park)	,, ,, ,, ...	5	0	6	222	893	35·16	..
,, (Springburn Park)	,, ,, ,, ...	5	0	6	352	970	38·21	..
,, (,, ,,) ...	Meteorological Office ..	8	1	0	351	946	37·25	214
D†Airdrie (Broomknoll Street) ..	J. Chisholm, Esq., C.E. .	5	1	0	402	923	36·35	188
D ,, (Rosemount)..........	A. B. Motherwell, Esq. .	5	1	6	570	1033	40·66	180
D ,, (Hillend Reservoir) ..	Mr. W. A. Ritchie	5	3	6	620	947	37·28	190
†Clarkston(Roughrigg Reservoir)	J. Chisholm, Esq., C.E.	5	1	0	661	899	35·40	..
D Gartcosh (Gartloch Hospital) ..	Mr. James McEwen ..	5	1	1	291	1008	39·68	232
5.—*CLYDE—Left Bank Tributaries.* 448 *sq. mi.*								
D†Leadhills	J.McFarlaneEsq.*per*MOS	5	1	1	1310	1511	59·49	196
†Strathaven (GlengavelRes.) ...	J. McMillan, Esq., C.E. .	5	1	0	880	1225	48·25	197
,, (Dungavel)........	J. D. WallaceEsq*per*SMS	5	1	0	789	1311	51·61	197
† ,, (Kype Reservoir) .	W. H. Purdie, Esq. ...	11	3	0	941	1064	41·90	173
,, (Dunside Reservoir)	J. McMillan, Esq., C.E. .	5	..		1010	1260	49·62	191
D ,, (East Overton Ho.)	H. Lee Dykes, Esq. ...	5	1	0	700	1163	45·80	200
D Stonehouse (Road Exper. Stat.)	J. Watson, Esq.........	5	1	0	525	998	39·27	201
,, (Glassford Filters) .	J. McMillan, Esq., C.E.	5	..		775	1079	42·50	222
Hamilton W.W. (Townhill) ...	W. H. Purdie, Esq......	7	1	0	436	860	33·85	..
D ,, (Laighstone Hall) ...	Rev. T. M. B. Paterson	5	1	9	260	903	35·56	200
,, Palace	J.Macaulay,Esq.*pr*M.O.S	..	..		140	808	31·83	178
Busby (Thornton Hall)	A. HendersonBishop.Esq	5	1	0	441	950	37·41	227
D Carmunnock (Carnbooth)	R. Robertson, Esq.,C.E.	5	1	0	365	1022	40·24	229
Cambuslang (Greenlees Filters)	J. McMillan, Esq., C.E. .	5	..		322	1085	42·73	..
Glasgow (Bellahouston Park) ..	J. Whitton, Esq.	5	0	6	160	824	32·43	..
,, (Elder Park)	,, ,, ,, ...	5	0	6	..	954	37·55	..
6.—*IRVINE.* 2 *sq. mi.*								
7.—*AYR.* 1 *sq. mi.*								
8.—*NITH.* 2 *sq. mi.*								
9.—*ANNAN.* 7 *sq. mi.*								
AYR. (Area, 1135 sq. mi.)								
1.—*CLYDE—Left Bank Tributaries.* 20 *sq. mi.*								
D Glengarnock (Chemical Works)	G. Harrower, Esq.	8	1	6	115	1441	56·74	197
2.—*FIRTH OF CLYDE.* 60 *sq. mi.*								
Largs (Curling Hall)	J. Clark-Neill, Esq.	..	..		..	942	37·09	..
Shaws WaterWorks(KellyDam)	late D. Macalister, Esq.	6	1	0	640	1720	67·70	..
,, ,, (Knockencorsan).	,, ,, ,, ..	6	1	0	1040	1643	64·70	..

DIVISION XIV.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	AYR—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*IRVINE & C.* 283 *sq. mi.*								
D	Ayr (Collier Row, St. Quinox)	Allan Stevenson, Esq.	5	1	6	93	899	35·38	175
D	Irvine (Gailes)	H. W. Aitken, Esq.	5	1	0	12	884	34·79	185
D	Kilmarnock(Agricultural Coll.)	Prof. R. A. Berry	8	1	2	80	1078	42·45	230
	,, (North Craig Res.)	R. Blackwood, Esq.	12	1	0	319	1123	44·20	..
D	Kilwinning (Eglinton Castle)	Mr. W. Priest	5	1	0	50	1029	40·52	167
D	Stevenston (Greenhead Filters)	GilbertChristie,Esq.,C.E.	5	1	0	186	1021	40·18	191
	Dalry (Blair Gardens)	Mr. J. Fairley	5	0	6	155	1284	50·54	221
D	,, (Munnoch Reservoir)	GilbertChristie,Esq.,C.E.	5	1	0	325	1252	49·30	189
D	,, (Caaf Reservoir)	,, ,, ,,	5	1	3	515	1339	52·73	187
D	,, W.W. (Filters)	Mr. W. Wightman	5	1	0	320	1232	48·50	216
	,, ,, (Thirdpart)	M ,, ,, ,,	5	1	0	560	1314	51·73	..
	,, (Camphill Reservoir)	James Lee, Esq., C.E.	12	1	6	611	1519	59·80	..
	4.—*AYR.* 222 *sq. mi.*								
	Ayr (Glendrishaig)	Miss Jean Murdoch	10	3	0	42	966	38·05	..
D	,, Cemetery	J. Young, Esq., C.E.	5	1	0	40	893	35·15	172
	5.—*DOON.* 119 *sq. mi.*								
	Loch Finlas	J. Young, Esq., C.E.	5	1	0	849	1142	44·97	..
D	Dalmellington (Benwhat)	A. Gillespie, Esq.	5	..		1177	1381	54·39	198
	Maybole (Knockdon Farm)	MMr. W. Muir	5	1	6	352	1027	40·43	..
D	Patna (Kerse Filters)	W. Gray, Esq., C.E.	11	1	0	743	1198	47·17	186
D	Ayr (Doonholm)	J. Kennedy, Esq.	5	1	0	90	1063	41·87	207
	6.—*CULZEAN BAY & C.* 32 *sq. mi.*								
	Turnberry (Lightouse)	BoardofNorthern Lights	..	..		..	880	34·66	160
	,, (Hotel)	Mr. J. Richards*per*S.M.S.	5	1	0	97	860	*33·86*	..
	7.—*GIRVAN.* 105 *sq. mi.*								
	Girvan (Glendoune Gardens)	Mr. J. Simons	5	1	0	100	1134	44·63	165
D	,, (Sunnyside,GolfCourse)	D. Macdonald, Esq.	5	1	0	27	993	39·10	178
	Loch Bradan	Msrs.J&HVEaglesham,CE.	11	1	0	991	1347	53·05	..
	8.—*STINCHAR & C.* 155 *sq. mi.*								
	Colmonell (Knockdolian)	Mr. A. Ogg, *per* M.O.S.	5	1	0	170	1061	41·79	215
D	Girvan (Pinmore)	Miss Hamilton	5	0	5	207	1227	48·32	224
	Barr Manse	Rev. G. Dods	5	1	0	330	1205	47·45	206
	9.—*LOCH RYAN.* 12 *sq. mi.*								
	10.—*LUCE BAY.* 15 *sq. mi.*								
	11.—*CREE.* 40 *sq. mi.*								
	12.—*DEE.* 9 *sq. mi.*								
	13.—*NITH.* 62 *sq. mi.*								
D	New Cumnock (Ayr Sanator'm)	Dr. E. E. Prest	5	1	0	850	1320	51·96	225
	,, ,, (Power Station)	James Jack, Esq.	5	1	0	764	1579	62·18	..
	14.—*INSULAR.* 1 *sq. mi.*								
	Ailsa Craig	Board of Northern Lights	3	5	0	..	484	19·06?	166
	RENFREW. (Area, 241 sq. mi.)								
	1.—*CLYDE—Right Bank Tributaries.* 3 *sq. mi.*								
	2.—*CLYDE—Left Bank Tributaries.* 194 *sq. mi.*								
	Lochwinnoch (Garthland)	H. Macdowall, Esq.	5	0	11	150	1740	68·50	206
	GorbalsDist.WW(NetherCairn)	J.R.Sutherland,Esq.,C.E.	12	0	5	700	1420	55·90	..
	,, ,, ,, (Middleton)	,, ,, ,,	12	0	5	550	1293	50·90	..
	,, ,, ,, (Ryat Lynn)	,, ,, ,,	8	0	5	310	1158	45·60	..
	,, ,, ,, (Waulk Glen)	,, ,, ,,	12	0	5	280	1119	44·05	..

DIVISION XIV.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge. Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
RENFREW—(*con.*)								
2.—*CLYDE—Left Bank Tributaries*—(*con.*)								
aisley W.W. (Muirhead)	James Lee. Esq., C.E.	12	1	0	482	1534	60·41	..
,, ,, (Springside)	,, ,, ,,	12	1	0	532	1706	67·18	..
,, ,, (BackThornleymuir)	,, ,, ,,	12	1	0	646	1273	50·13	..
,, ,, (Stanley)	,, ,, ,,	12	1	0	190	1064	41·88	..
Howwood (Midton House)	Andrew McNab, Esq.	5	1	6	231	1455	57·27	..
D Pollokshaws (Pollok House)	Sir J. Stirling Maxwell.Bt.	5	1	0	45	914	36·00	192
D Glasgow (Queen's Park)	J. Whitton. Esq.	8	0	9	114	864	34·03	185
,, (Maxwell Park)	,, ,, ,,	5	0	6	69	920	36·20	..
Kilbarchan (Milliken Park)	M.DouglasAnderson,Esq.	6	1	6	75	1052	41·40	..
D ,, (Glentyan)	(R)R. H. Hunter, Esq.	8	3	9	285	1359	53·49	214
D†Pailey (The Coats Observatory)	Observatory Committee	8	1	0	107	1003	39·50	211
D Crookston (Road Exper.Station)	R. Drummond, Esq.	5	1	0	125	1140	44·89	153
Shaws W.W. (Duchall Moor)	late D. Macalister, Esq.	6	1	0	1150	1557	61·30	..
,, ,, (Creuch Hill)	,, ,, ,,	6	1	0	1350	1410	55·50	..
,, ,, (Green Water)	,, ,, ,,	6	1	0	788	1478	58·20	..
D ,, ,, (Gryfe Reservoir)	,, ,, ,,	6	1	0	640	1554	61·17	231
D ,, ,, (Mansfield)	,, ,, ,,	5	1	0	573	1557	61·31	231
,, ,, (Darndaff Moor)	,, ,, ,,	5	1	0	850	1479	58·23	..
Bishopton (Ingliston)	D. Cross, Esq.	5	1	0	195	1016	39·99	..
3.—*FIRTH OF CLYDE.* 34 *sq. mi.*								
Shaws W.W. (Largs Road)	late D. Macalister, Esq.	5	1	0	910	1330	52·36	..
Dougliehill Filters(Pt.Glas. WW	James Murray, Esq.	8	1	6	540	1360	53·54	..
Parkhill ,, (,, ,, ,,)	,, ,, ,,	8	1	6	275	1188	46·79	..
D ShawsW.W.(CompensationRes.)	late D. Maclister, Esq.	5	1	0	600	1656	65·18	236
D ,, ,, (Loch Thom)	,, ,, ,,	5	1	0	643	1663	65·48	236
,, ,, (Shielhill)	,, ,, ,,	6	1	0	962	1748	68·80	..
,, ,, (Spango Burn)	,, ,, ,,	6	1	0	757	1831	72·10	..
D ,, ,, (Hole Glen)	,, ,, ,,	5	1	0	603	1614	63·55	244
D ,, ,, (New Yett's Dam)	,, ,, ,,	5	1	0	800	1518	59·78	245
D Port Glasgow (Broadfield)	Miss Harrington,	8	1	0	250	1264	49·78	211
D Greenock (Prospect Hill)	late D. Macalister, Esq.	5	1	0	200	1471	57·90	236
Langbank (East Bank Gardens)	A. Cross, Esq.	5	3	3	150	1079	42·48	..
4.—*IRVINE.* 10 *sq. mi.*								

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON. (Area, 270 sq. mi.)								
1.—*FORTH—Right Bank Tributaries.* 10 *sq. mi.*								
2.—*FIRTH OF CLYDE & COWAL.* 52 *sq. mi.*								
D Cardross (Kilmahew)	Capt. Claud A. Allan	5	1	0	130	1008	39·69	205
D ,, (Darleith)	Mr. J. Wilson	8	1	0	400	1216	47·89	232
D Helensburgh (Ferniegair)	H. M. Ross, Esq., C.E.	8	1	0	22	1328	52·29	224
D ,, (Valve House)	,, ,, ,,	8	1	0	293	1396	54·98	235
D Roseneath (Achnashie)	R. S. Campbell, Esq.	6	1	0	25	1441	56·75	186
Garelochhead (Aikenshaw)	Mr. W. S. Turnbull	6	1	0	32	1433	56·40	..
D Arrochar (Glen Loin)	Mrs. Little	5	1	0	50	1983	78·07	258
3.—*CLYDE—Leven.* 149 *sq. mi.*								
D Dumbarton (Leven Shipyard)	Messrs.W.Denny & Bros.	5	1	0	9	918	36·15	186

DIVISION XV.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	DUMBARTON—(*con.*)								
	3.—*CLYDE—Leven*—(*con.*)								
	KilpatrickH(Burncrooks Res.)	1T. L. Rae, Esq., C.E. ..	5	1	0	835	907	35·70	..
	,, ,, (,, ,,) No. 2	,, ,, ,, ...	5	1	0	959	1272	50·07	..
	,, ,, (,, ,,) No. 3	,, ,, ,, ...	5	1	0	920	1196	47·09	..
D	Renton (Carman Filters)	Mr. Chas. Brown	8	4	0	292	1120	44·11	217
	4.—*CLYDE—Right Bank Tributaries.* 59 *sq. mi.*								
D	Drumchapel (Wasdale)........	F. C. Thomson, Esq. ..	5	1	0	68	807	31·77	226
D	Milngavie (Douglaston)........	Major R. M. Ker	5	1	0	157	1050	41·33	204
D	Duntocher (Cochno Filters)....	T. L. Rae, Esq., C.E. ..	5	1	0	400	1035	40·74	185
	Kilpatrick Hills (Greenside Res.)	,, ,, ,, ...	5	1	0	876	1298	51·12	..
	,, ,, (Loch Cochno) .	,, ,, ,, ...	5	1	0	909	1343	52·86	..
	,, ,, (Jaw Reservoir) .	,, ,, ,, ...	5	1	0	912	1357	53·41	..
	STIRLING. (Area, 463 sq. mi.)								
	1.—*FORTH—Right Bank Tributaries.* 263 *sq. mi.*								
	Muiravonside Ho.[Linlithgow] .	Mr. C. Leeder..........	5	4	8	175	813	32·02	..
	Polmont (Vellore)	(R)W. Brown, Esq.	8	4	6	320	679	26·75	*206*
	Bonnybridge (RoadExper.Stat.)	W. Ballantine, Esq.	5	1	3	150	1027	40·43	..
D	Falkirk (Inglewood, Laurieston)	,, ,, ,, ...	5	1	3	133	881	34·67	167
D	,, (Westbank)	A. Nimmo, Esq.	5	0	9	75	903	35·55	190
	,, (Ardenlea)	J. Aitken, Esq., F.R.S. .	5	1	0	105	926	36·46	181
	,, (Kerse)	C. Brown, Esq.	8	1	0	18	770	30·30	..
	Little Denny Reservoir	C. Massie, Esq.	8	1	0	326	1146	45·12	..
	,, ,, Filters	,, ,, ...	8	1	0	268	1157	45·55	..
	Kilsyth (Faughlin Res.)	,, ,, ...	8	1	0	707	1265	49·82	..
	Earlsburn Reservoir	,, ,, ...	8	1	0	1202	1219	48·01	..
D	Stirling (Touch W.W.).. *No.* 3	A. H. Goudie, Esq.	8	1	9	759	1102	43·39	198
D	,, (,, ,,)...*No.* 2	,, ,, ,, ...	8	1	4	707	1047	41·21	198
D	,, (,, Reservoir)..*No.* 1	,, ,, ,, ...	8	1	0	455	1072	42·20	198
	,, (Touch House)........	Sir D. A. S. Steuart, Bart.	5	1	0	35	961	37·82	..
	Gargunnock House	Mr. D. McNeill	5	1	6	85	943	37·12	..
D	Kippen (Arngomery)	Mr. P. McCowan.......	5	4	2	150	1001	39·43	157
	Duchray Valley (Ben Lomond)	J.R.Sutherland,Esq.,C.E.	8	0	6	1800	1683	66·25	..
D†	,, ,, (Glen Dhu) ..	,, ,, ,, ..	8	1	0	500	1801	70·90	194
D†	,, ,, (Comer)	,, ,, ,, ..	8	1	0	600	2003	78·85	194
	,, ,, (Achaidh Burn)	,, ,, ,, ..	8	1	0	1200	2095	82·50	..
	,, ,,(HeadofMainStream)	,, ,, ,, ..	8	1	0	950	2026	79·75	..
	2.—*FORTH—Teith.* 5 *sq. mi.*								
D†	Stronachlachlar (Invergyle) ..	J.R.Sutherland,Esq.,C.E.	8	1	0	376	1826	71·90	204
	3.—*FORTH—Left Bank Tributaries.* 15 *sq. mi.*								
D†	Bridge of Allan (The Lea)	Laurence Pullar, Esq. .	5	1	0	80	764	30·09	209
	4.—*CLYDE—Leven.* 128 *sq. mi.*								
†	Strathblane (Blanefield)	J.R.Sutherland,Esq.,C.E.	8	1	0	250	1185	46·65	..
D	Killearn (Achnagowan)	Miss Guthrie-Smith.....	5	0	10	332	1307	51·47	189
	Loch Arklet (Corriehichon) ..	J.R.Sutherland,Esq.,C.E.	8	0	6	870	1850	72·85	..
	,, ,, (Corriearklet)	,, ,, ,, ..	8	0	6	950	2005	78·95	..
	5.—*CLYDE—Right Bank Tributaries.* 52 *sq. mi.*								
D	Torrance (Glenorchard)	Miss Bartholomew	5	1	6	200	1004	39·52	182
	Strathblane (Mugdock Res.) ..	J.R.Sutherland,Esq.,C.E.	8	0	6	320	1147	45·15	..
	,, (Craigbarnet)	Capt. Miller Stirling,R.N.	5	0	6	300	1295	51·00	..
D	Kilsyth (Innsbridge)	J. I. Little, Esq.	5	11	0	202	1246	49·07	195
	,, (Corrie Reservoir)	,, ,, ,, *per*S.M.S.	..	..		..	1416	55·74	..

DIVISION XV.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	BUTE. (Area, 218 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*ISLE OF* BUTE*.* 50 *sq. mi.*								
D	Rothesay (Ardencraig)	J. Davidson, Esq.	5	1	0	201	1370	53·94	250
	,, (,,)	,, ,, ,,*per*S.M.S.	5	1	0	201	1369	53·89	251
	Port Bannatyne (Ettrickdale)..	Col.M.R.Gray Buchanan	5	1	0	190	1316	51·83	242
	2.—*CUMBRAES.* 4 *sq. mi.*								
D	Great Cumbrae (Millport)	J. Peden, Esq.	9	1	0	15	1075	42·31	234
	3.—*ARRAN.* 164 *sq. mi...*								
	Pladda	Boardof Northern Lights	..	..		130	831	32·71	184
	Holy Island (Pillar Rock)	,, ,, ,, ..	3	0	3	46	1218	47·96	..
D	Shiskine Schoolhouse	R. T. Irvine, Esq.	5	1	0	107	1181	46·50	213
D	Dougarie Lodge	David Reside, Esq.	5	1	0	10	1233	48·53	212
	ARGYLL. (Area, 3181 sq. mi.)								
	1.—*TAY—Tummel.* 36 *sq. mi.*								
	2.—*SOUND OF ARISAIG, SOUND OF MULL & C.* 317 *sq. mi.*								
D	Morvern (Ardtornish)	G. C. Sellar, Esq.	5	1	0	48	1805	71·06	240
D	,, (Drimnin)	Mrs. Gordon	5	1	0	225	1319	51·95	243
D	Loch Sunart (Glenborrodale)	.T.J.A.Armstrong, Esq...	5	0	2	60	1746	68·76	252
	Ardnamurchan	Boardof Northern Lights	8	4	3	180	1168	45·99	..
	3.—*LOCH LINNHE—Right Bank Tributaries.* 139 *sq. mi.*								
D	Morvern (Kingairloch)	G. Herbert Strutt, Esq. .	5	1	0	40	2346	92·37	216
D	Ardgour House	Miss Maclean	5	0	10	60	2533	99·73	249
	4.—*LOCH LINNHE—Left Bank Tributaries.* 165 *sq. mi.*								
	Loch Creran (Barcaldine)	G. Haig, Esq...........	5	0	8	50	1694	66·71	..
	Duror (The Rectory)	Rev. E. J. Benwell	5	1	0	120	1765	69·50	207
	Ballachulish House	Mr. W. D. Stewart	5	1	0	56	1995	*78·56*	..
	,, (Glencoe Gardens)	J. D. Sutherland, Esq. .	8	1	0	20	1587	62·49	..
	Glenleven (BlackwaterHo.)No 4	BritishAluminiumCo.,Ld.	8	1	0	1069	1789	70·42	..
D	,, (,, Dam,S.)2	,, ,, ,, ...	8	1	0	1072	1955	76·99	258
D	,, (Kinlochleven)..No.1	,, ,, ,, ..	8	1	0	140	2137	84·15	262
	Corran Lighthouse	Board of NorthernLights	3	1	6	38	2164	85·18	221
	5.—*LOCH ETIVE.* 197 *sq. mi.*								
D	Taynuilt (Barguillean)	TMMacdonaldEsq*per*SMS	..	..		230	1621	63·84	186
D	Connel Ferry (Ach-na-cloich) ..	WDFordyce,Esq *per*S.M.S..	..	..		..	1491	58·69	197
D	Glen Etive	,, ,, ,, ,,	..	..		50	2540	100·00	192
	6.—*LOCH ETIVE—Loch Awe.* 319 *sq. mi.*								
D	Loch Awe (Ford).............	J. Boyd, Esq.	8	1	0	148	1802	70·95	250
D	,, ,, (Dalavich)	,, ,, ,, ...	8	1	0	283	2225	87·60	241
D	Dalmally (Manse of Glenorchy.)	Rev. Farquhar MacRae	5	1	0	150	2108	82·98	231
	7.—*FIRTH OF LORNE.* 112 *sq. mi.*								
D	Kilmelfort (Arduaine)	J. A. Campbell, Esq. ..	5	0	10	23	1443	56·81	215
D†	**Oban**	Dr. E. Baily	8	1	0	17	1274	50·15	224
	8.—*SOUND OF JURA.* 163 *sq. mi.*								
D	Lochgilphead (Poltalloch)	Mr. D. S. Melville	5	1	2	135	1471	57·91	219
D	Ardfern (Innisaeg)	Mr. John Strang	5	3	7	100	1286	50·62	198
	9.—*KINTYRE, WEST.* 146 *sq. mi.*								
	Mull of Kintyre	Board of Northern Lights	..	..		279	999	39·35	191
D	Muasdale (Killean Manse) ...	Rev. D. J. Macdonald ..	5	1	0	30	1119	44·04	226
D	Carse	J. Birkmyre, Esq., jun. .	6	1	6	20	1062	41·83	243

DIVISION XV.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
ARGYLL—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
10.—*KINTYRE, EAST.* 177 *sq. mi.*								
D†Campbeltown (South **Park**)	J. A. Gardiner, Esq.	8	0	10	20	1408	55·45	227
D† ,, (**Witchburn**)	Mr. John Giffen	5	1	6	75	1338	52·69	207
,, (Devaar)	Board of Northern Lights	..	3	4	120	1337	52·63	177
D Skipness Castle	Mr. D. C. Coutts	5	1	6	14	1327	52·25	232
11.—*LOCH FYNE.* 264 *sq. mi.*								
D Ardrishaig (Canal Office)	L. J. Groves, Esq., C.E.	5	1	0	48	1614	63·56	220
D Loch Fyne (Castle Lachlan)	J.McLachlan,Eq.*per*SMS	5	1	0	42	1630	64·19	225
D ,, ,, (Brenchoillie)	A. E. Lowis, Esq.	5	1	0	240	1887	74·29	173
D†Inveraray Castle Gardens	,, ,, ,,	5	1	0	40	2116	83·30	264
† ,, (Stronshira)	Rev. Gillespie Campbell.	5	1	0	10	2156	84·90	..
D Ardkinglas	Mr. J. Payne	8	1	6	37	1603	63·11	221
D†Glen Aray (Ladyfield)	A. E. Lowis, Esq.	5	0	9	400	1888	74·33?	188
Glen Shira (Drimlie)	Mr. Dugald McIntyre	5	1	6	400	2187	86·09	..
12.—*FIRTH OF CLYDE & COWAL.* 242 *sq. mi.*								
Innellan	Miss Mair	6	0	8	15	1476	58·10	*201*
D Tighnabruaich (Wellpark)	R. Paton, Esq.	12	5	0	50	1544	60·77	201
D Dunoon (Castle Gardens)	W Rodger, Esq., C.E.	12	3	6	56	1796	70·71	203
D ,, (Reservoir)	,, ,, ,,	12	3	6	245	2042	80·41	210
D ,, (Redhurst)	Dr. J. Banks	5	1	0	60	1822	71·72	206
D Holy Loch (Ardnadam)	Rev. J. Cairns Mitchell	5	1	0	66	1804	71·01	219
D Loch Eck (Benmore)	Mr. R. Greenlaw	5	1	3	40	2126	83·69	183
D†Lochgoilhead (Nuthill)	G. Murray Knox, Esq.	5	1	0	15	1796	70·71	241
13.—*CLYDE—Leven.* 4 *sq. mi.*								
14.—*INSULAR.* 900 *sq. mi.*								
D Islay (Ardbeg)	Colin E. Hay, Esq.	5	7	0	46	1372	54·00	229
,, (Rhinns)	Board of Northern Lights	7	3	6	150	1007	39·66	198
,, (Lochindaul)	,, ,, ,,	3	0	6	52	1271	50·03	197
,, (McArthur's Head)	,, ,, ,,	3	0	4	128	1616	63·64	171
D ,, (Eallabus)	J. Forbes, Esq.	5	1	0	68	1436	56·53	249
,, (Rhuvaal)	Board of Northern Lights	3	1	3	147	1084	42·67	180
D Jura (Ardfin)	Colin Campbell, Esq.	5	1	0	160	1470	57·87	228
Fladda Lighthouse	Board of Northern Lights	3	1	0	42	1391	54·76	173
Lismore (Mousedale)	,, ,, ,,	7	3	10	105	1119	44·04	189
D Eriska (Ledaig)	Mr. J.B.Trotter,*per*S.M.S.	5	1	6	30	1592	62·67	212
D†Mull (Iona Manse)	Rev. A. Macmillan	5	1	2	45	1152	45·35	233
D† ,, (Bunessan)	Duncan Cameron, Esq.	5	1	4	50	1107	43·57	239
D ,, (Ulva)	F. W. Clark, Esq.	5	1	0	30	1515	59·63	260
D† ,, (Knock)	Duncan Cameron, Esq.	5	1	4	50	1759	69·26	191
D ,, (Glencannel)	,, ,, ,,	5	1	3	140	2661	104·78	213
D† ,, (Gruline)	J. W. Melles, Esq.	8	1	0	101	1738	68·41	245
D ,, (Quinish)	J. N. Forsyth, Esq.	5	1	3	35	1266	49·84	245
,, (Glengorm Castle)	Miss M. Lithgow	5	1	0	350	1200	47·23	..
,, Sound of	Board of Northern Lights	3	1	4	55	1453	57·20	200
†Tiree (Cornaigmore)	A. M. Ewan, Esq.	5	1	0	25	990	38·97	..
Sanda	Board of Northern Lights	..	..		165	748	29·47	190

DIVISION XVI.—EAST MIDLAND COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	CLACKMANNAN. (Area,, 55 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*FORTH, LOWER.—Left Bank Tributaries.* 55 *sq. mi.*								
D	Alloa House Gardens..........	Earl of Mar& Kellie,K.T.	5	2	6	40	711	27·98	159
	,, W.W. (Gartmorn Res.) ..	AndrewMackie,Esq.,C.E.	11	1	0	172	697	27·45	..
D	Tillicoultry (Westbourne)	J.Patterson,Esq.*per*SMS.	..	..		..	721	28·39	189
D	Dollar (Wellhall, Dollarbeg) ...	James Bleloch, Esq. ...	5	0	9	265	872	34·32	220
	KINROSS. (Area, 87 sq. mi.)								
	1.—*FORTH, LOWER—Left Bank Tributaries.* 15 *sq. mi.*								
	Blairingone Manse [Dollar] ..	Rev. J. F. Cameron	5	1	6	296	948	37·31	202
	2.—*LEVEN & C.* 67 *sq. mi.*								
	Blairadam Wood [Kelty]	D. Ross, Esq., C.E.	8	0	5	761	1018	40·06	152
	Loch Leven Sluice	Mr. W. Hay	8	0	9	306	669	26·36	..
D	Milnathort (Ledlanet).........	J.C.Calder,Esq.*per*S.M.S.	5	1	0	750	902	35·50	186
	3.—*EDEN.* 2 *sq. mi.*								
	4.—*TAY—Earn.* 3 *sq. mi.*								
	FIFE. (Area, 505 sq. mi.)								
	1.—*FORTH, LOWER—Left Bank Tributaries.* 66 *sq. mi.*								
D	Rosyth (H. M. Dockyard)	The Supt. Engineer ...	8	1	0	53	567	22·33	160
D	Kincardine (Tulliallan)........	J. C. Wilson, Esq.	5	1	0	80	805	31·71	160
D	Dunfermline (Keavil)	J. J. Dalgleish, Esq... .	5	0	2	150	740	29·13	153
D	,, (Victoria Place) .	J. Blyth, Esq.	5	1	2	365	793	31·22	176
D	Culross (Westgrange)	J. J. Dalgleish, Esq. ...	5	0	2	116	724	28·52	154
	,, (Luscar House)..No. 1	Col. A. Mitchell	5	0	10	430	745	29·34	..
	,, (,, ,,)..No. 2	,, ,, ,, ...	5	0	10	430	745	29·32	..
	Carnock (Craigluscar)	P. C. Smith, Esq.	12	0	4	280	875	34·47	..
	2.—*LEVEN & C.* 208 *sq. mi.*								
D	Dunfermline (Fordell House) .	Earl of Buckinghamshire	5	1	0	250	701	27·60	143
D	Kirkcaldy (St. Peter's Rectory)	Rev. John S. Begg ...	5	1	0	85	600	23·62	195
	,, (Muttonhall Farm) .	G. Donaldson, Esq......	5	1	0	267	611	24·05	166
D	Cowdenbeath (Northbank) ...	J. S. Rae, Esq.	5	1	0	473	844	33·24	184
	Cleish Hills (Deanhead Farm)..	,, ,, ,, ...	5	1	0	725	756	29·77	..
	,, ,, (Craigaverral) .	M ,, ,, ,, ...	5	1	0	760	848	33·37	..
	,, ,, (Roscobie Res.) ..	,, ,, ,, ...	5	1	0	660	855	33·67	..
	,, ,, (LochGlow Res.) ..	D. Ross, Esq., C.E.....	8	0	7	897	1046	41·20	..
	Leslie (Lothrie Reservoir)	Mr.R.Ritchie,*per*S.M.S. .	5	0	5	702	783	30·84	..
D	Elie House (The Gardens)	Mr. A. A. Law	5	0	10	55	557	21·93	166
D	,, (The Castle)	MissE.E.Scott Moncrieff.	5	0	9	..	549	21·60	181
	Largo (Carlton)	Mr. E. Tate	5	1	6	150	650	25·58	175
D	Colinsburgh (Balcarres)	Mr. J. M. Paul	5	1	0	300	697	27·45	177
	,, (Lathallan House)	Dr. W. H. Bryce	5	1	0	505	617	24·30	168
	Carnbee (Ovenstone W.W.) ...	A. P. Watson, Esq......	5	1	0	168	520	20·47	..
	3.—*EDEN & C.* 205 *sq. mi.*								
	Ceres (Woodburn)	Ralph Richardson, Esq..	3	4	0	300	592	23·29	..
D	,, (Castlebank)	J. Melville, Esq.	5	2	0	280	696	27·39	187
D	,, (St. Helens)	Rev. Robert Dick	5	1	6	265	677	26·67	186
D	Cameron Water Works	G. Smith, Esq., C.E.....	5	1	0	478	623	24·51	149
	Cupar (Rankeillour)	Major J. Kerr	5	1	0	240	707	27·82	169
	,, (Fife&Kinross Asylum) .	Dr. J. H. Skeen,*per*SMS.	5	1	0	210	601	23·67	..

DIVISION XVI.—EAST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
FIFE—(*con.*)								
3.—*EDEN & C.*—(*con.*)								
D St. Andrews (Water Works)	G. Smith, Esq., C.E.	5	1	0	217	532	20·94	166
D „ „ (Queen's Gardens)	Miss Macadam	5	1	0	55	531	20·90	167
„ „	G. Smith, Esq.,*per*M.O.S.	..	..		20	527	20·75	..
Kilmany (Lochmalony)	W. Marshall, Esq.	5	0	6	260	650	25·57	..
4.—*FIRTH OF TAY.* 25 *sq. mi.*								
Newport (Tayfield)	W. Berry, Esq.	5	0	7	100	640	25·19	..
D Tayport (Lighthouse)	J.H.Thompson,Esq.C.E.	5	1	0	27	619	24·36	180
5.—*TAY—Earn.* 1 *sq. mi.*								
6.—*INSULAR.*								
Inchkeith	Board of Northern Lights	..	..		160	484	19·05	..
Isle of May	„ „ „	6	3	0	..	399	15·71	159
PERTH. (Area, 2535 sq. mi.)								
1.—*FORTH—Right Bank Tributaries.* 17 *sq. mi.*								
2.—*FORTH, UPPER—Left Bank Tributaries.* 64 *sq. mi.*								
Doune (Gartincaber)	R.deMBurnMurdoch,Esq.	5	1	0	145	938	36·95	203
D†Aberfoyle (The Inn)	J.R.Sutherland,Esq.,C.E.	8	0	6	60	1229	48·40	169
D†Loch Dhu	„ „ „	8	0	6	325	1697	66·80	192
Ledard	„ „ „	8	0	6	1500	1976	77·80	..
3.—*FORTH—Teith.* 221 *sq. mi.*								
Ochtertyre	Maj. J. C. Dundas,D.S.O	5	0	8	31	887	*34·90*	..
Loch Drunkie	J.R.Sutherland,Esq.,C.E.	8	0	6	420	1245	49·00	..
Ben Venue (Glasahoile)	„ „ „	8	1	0	1150	1737	68·40	..
D†Loch Venachar	„ „ „	8	0	6	275	1281	50·45	173
†Bridge of Turk	„ „ „	8	0	6	275	1303	51·30	169
Doune (Cauldhame)	J. Forbes, Esq.	5	1	0	830	1134	44·64	..
†Loch Katrine (Tunnel Hill Top)	J. R. Sutherland, Esq.	8	0	6	830	1712	67·40	..
Ben Ledi	No.2 „ „ „	8	0	6	1400	1356	53·40	..
D†Achnahard	„ „ „	8	1	0	474	1419	55·85	175
Callander (Leny House)	J. H. Buchanan, Esq.	5	0	6	340	1229	48·40	..
†Strone Bridge	J.R.Sutherland,Esq.,C.E.	8	1	0	380	1576	62·06	..
†Glen Meann	„ „ „	8	1	0	800	1706	67·15	..
Glen Finglas	„ „ „	8	1	0	1200	1770	69·70	..
D†Glengyle	„ „ „	8	0	6	380	1937	76·25	202
† „ Upper	„ „ „	8	1	0	750	2206	86·85	..
Allt a' Choin	„ „ „	8	1	0	1250	1916	75·45	..
†Balquhidder (Blaircreach)	J. Carnegie, Esq.	5	1	0	460	1923	75·72	..
D† „ (Stronvar)	„ „ „	5	1	0	422	1474	58·02	176
4.—*FORTH, LOWER—Left Bank Tributaries.* 107 *sq. mi.*								
Dunblane (Kippenross)	A. H. Anderson, Esq.	8	1	3	237	1049	41·31	230
„ (Kippendavie)	„ „ „	8	2	9	300	965	37·99	..
„ (Road Exper. Stat.)	D. L. Bayne, Esq.	5	1	0	250	1120	44·08	..
Glendevon (Glenquey Res.)	D. Mackenzie, Esq.,C.E.	11	0	11	945	1118	44·00	..
D „ (Tormaukin)	Mr. W. Phillips	5	1	6	770	1197	47·11	172
„ (Glensherup)	P. C. Smith, Esq.	12	0	4	945	1325	52·18	..
5.—*LEVEN.* 1 *sq. mi.*								
6.—*EDEN.* 4 *sq. mi.*.								

DIVISION XVI.—EAST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
PERTH—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
7.—*TAY—Earn.* 376 *sq. mi.*								
Slateford Burn (Shire End)	Messrs. Leslie & Reid, C.E.	8	..		930	887	34·91	..
„ „ (Whitehill)	„ „ „	8	..		810	831	32·70	..
Upper Farg (Plains)	„ „ „	8	..		900	841	33·13	..
„ „ (HeatherieleysQuarry)	„ „ „	8	..		715	767	30·20	..
„ „ (Main Bank)	„ „ „	5	..		..	637	25·10	..
Auchterarder (Belhie)	Miss D. Cairns	5	0	10	100	650	25·60	156
Abernethy (Ayton House)	Mr. J. Leslie, *per* S.M.S.	5	0	11	120	609	23·99	..
D Bridge of Earn (Ballendrick)	Capt. O. A. Taylor	5	1	2	30	617	24·28	171
Crieff (Drummond Terrace)	Col. J. Dinwoodie, *per* S.MS	5	1	0	330	825	32·49	186
D „ (Strathearn Hydro)	Mr. G. Reid	5	1	0	436	782	30·79	203
8.—*TAY—Almond & c.* 149 *sq. mi.*								
D Perth (Craigie Road)	Sydney Wilson, Esq.	5	1	0	56	668	26·29	201
D „ (Wellshill Cemetery)	H. Coates, Esq.	5	1	0	77	659	25·94	184
9.—*TAY—Strathtay below Dunkeld.* 33 *sq. mi.*								
Murthly (Douglasfield)	W. A. Rae, Esq.	5	0	6	237	679	26·75	..
„ (Glendelvine)	A.P. Lyle, Esq. *per* S.M.S.	5	0	9	240	544	21·42	..
D†Dunkeld (Snaigow)	W. H. Cox, Esq.	5	1	0	370	703	27·69	181
10.—*TAY—Bran.* 81 *sq. mi.*								
D Dunkeld (Inver)	Charles McIntosh, Esq.	5	1	0	183	700	27·58	199
11.—*TAY—Strathtay above Dunkeld.* 95 *sq. mi.*								
D†Aberfeldy (Dall Avon)	Dr. N D. Mackay	5	1	0	320	716	28·20	191
D† „ (Dunros)	H. W. Johnston, Esq.	5	1	0	400	692	27·24	197
12.—*TAY—Loch Tay.* 241 *sq. mi.*								
D Killin (The Manse)	Rev. G. W. Mackay	5	1	0	400	1320	51·97	191
D „ (Morenish Lodge)	Mr. J. Stewart, *per* S.M.S.	5	1	0	200	1628	64·11	186
D†Kenmore (The Manse)	Rev. W. A. Gillies	5	1	0	550	857	33·75	200
13.—*TAY—Lyon.* 142 *sq. mi.*								
D Glenlyon (Meggernie Castle)	Mr. J. Bell	5	1	0	760	1281	50·45	216
14.—*TAY—Tummel.* 587 *sq. mi.*								
D Loch Rannoch (Dall)	Mr. D. Robertson	5	1	0	772	904	35·58	197
Pitlochry (Torrdarach)	W. Briggs Esq. *per* S.M.S.	5	0	10	480	629	24·76	..
D „ (Bonskeid House)	G. F. Barbour, Esq.	5	1	0	540	741	29·19	205
D Fincastle House	C.R. Barbour, Esq. *per* SMS	5	1	0	980	743	29·25	176
D Trinafour (Druimchruaidh)	A. D. Cameron, Esq.	5	1	0	850	1028	40·48	211
†Blair Atholl	Mr. D. McLachlan	5	1	0	420	662	26·05	..
15.—*TAY—Isla.* 282 *sq. mi.*								
D Coupar Angus	R. Taylor, Esq.	5	2	2	183	586	23·09	160
D Blairgowrie (Kinloch Manse)	Serj. Ian Milne	5	1	0	280	612	24·10	187
D†Kirkmichael (Ballintuim Ho.)	Miss M. A. Macdonald	5	1	4	700	731	28·80	215
16.—*TAY—Left Bank Tributaries.* 51 *sq. mi.*								
Kinfauns (Balthayock)	Mr. W. Taylor	5	1	0	320	582	22·91?	..
Dunsinnan	J. Mackay Bernard, Esq.	5	0	11	380	721	28·39	..
17.—*FIRTH OF TAY.* 45 *sq. mi.*								
18.—*SPEY. Right Bank Tributaries.* 1 *sq. mi.*								
19.—*LOCH LINNHE. Left Bank Tributaries.* 2 *sq. mi.*								
20.—*CLYDE—Leven.* 36 *sq. mi.*								

DIVISION XVI.—EAST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	FORFAR. (Area, 875 sq: mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*TAY—Isla.* 211 *sq. mi.*								
D	Kettins School	W. Andrew, Esq.	5	1	0	218	584	22·98	175
	Glamis Castle	Mr. T. Wilson	5	0	9	250	680	26·77	..
D	Forfar (Lilyfield)	D. M. Mackie, Esq.	5	0	5	225	716	28·21	159
	,, (OrchardbankSew.Farm)	A. Watterston, Esq.	4	0	9	214	579	22·81	..
D	Kirriemuir (Lintrathen)	G. Baxter, Esq., C.E.	8	1	0	700	663	26·09	168
	,, (,,)	M ,, ,, ,,	8	1	0	700	674	26·55	..
	,, (,, Balnakeilly)	M ,, ,, ,,	8	1	0	700	701	27·60	..
	,, (,, CreichHill,S.)	M ,, ,, ,,	8	1	0	1482	663	26·10	..
	,, (,, ,, ,, Top)	M ,, ,, ,,	8	1	0	1500	630	24·80	..
	,, (,, ,, ,, N.)	M ,, ,, ,,	8	1	0	1491	724	28·50	..
	2.—*FIRTH OF TAY.* 80 *sq. mi.*								
D	Buddonness (Low Light)	J. H. Thompson,Esq.C.E	5	1	0	27	628	24·71	187
D	Dundee (Harbour)	,, ,, ,,	5	0	10	14	616	24·24	155
	,, (Eastern Necropolis)	Mr. A. Macrae	3	1	0	199	634	24·95	..
D	,, (,, ,,)	,, ,,	5	1	0	199	643	25·31	185
	,, (Dens Works)	Messrs. Baxter Bros.,Ltd	5	*on*	*roof*	119	670	26·39	261
	,, (Camperdown Works)	Messrs. Cox, Bros., Ltd.	5	1	2	290	661	26·04	..
	,, (Inniscarra)	H.G.Walker,Esq.,*per*SMS	..	..		130	631	24·83	..
D	,, (Balruddery)	J.Martin White, Esq.	5	1	0	266	637	25·09	172
D	,, (Kirkton of Mains)	Alex. Duncan, Esq.	8	1	0	244	626	24·64	173
	3.—*SOUTH ESK & C.* 371 *sq. mi.*								
D	Carnoustie	D. M. Ramsay, Esq.	8	1	0	39	542	21·32	199
D	Craigton	G. Baxter, Esq., C.E.	8	1	0	484	692	27·25	173
	,,	M ,, ,, ,,	11	3	0	484	670	26·38	..
	,, (Hillhead)	M ,, ,, ,,	11	3	0	570	669	26·35	..
	Crombie Reservoir	M ,, ,, ,,	11	3	0	522	718	28·28	..
D	Arbroath (Dishland Hill)	Mr. J. Campbell	5	1	0	69	460	18·13	158
	,, (Muirheads Res.)	S. L. Christie, Esq.	5	1	0	251	626	24·63	..
	Forfar (Pitscandly)	W. T. Farquhar, Esq.	5	1	9	300	639	25·17	..
	Montroseness	Board of Northern Lights	3	1	0	124	515	20·28	138
	Montrose	S.L.Christie,Esq.,*per*SMS	..	..		16	503	19·81	145
D	,, (Melville Gardens)	,, ,,	5	8	0	20	507	19·96	..
D	Forfar W.W. (Den of Ogil)	A. Watterston, Esq.	12 x 4	0	3	633	834	32·84	172
D	Glenogil Waterworks	S. L. Christie, Esq.	5	1	0	700	855	33·67	165
D	Glen Prosen (Pearsie House)	Mr. K. McKenzie	5	1	0	600	774	30·49	205
	,, ,, (Lednathie)	Mr. W. G. Lindsay	5	1	0	720	776	30·54	148
D	,, ,, (Balnaboth Gdns.)	Mrs. Ogilvie	5	1	0	965	824	32·44	144
	4.—*NORTH ESK & C.* 213 *sq. mi.*								
	Montrose (Sunnyside Asylum)	Dr. C. J. Shaw	5	0	10	200	534	21·04	..
D	,, (Kinnaber W.W.)	S. L. Christie, Esq.	5	1	0	38	542	21·33	165
	Logie Pert (Loanhead of Craigo)	Mr. G. D. Cramond	5	0	9	200	588	23·15	..
	Brechin (Stracathro Gardens)	Mr. A. Dunlop	5	1	0	200	606	23·86	..

DIVISION XVII.—NORTH EASTERN COUNTIES.

	STATIONS.	AUTHORITIES.	Diam.	Ground ft.	Ground in.	SeaLevel	mm.	inches	Days
	KINCARDINE. (Area, 382 sq. mi.) ..								
	1.—*NORTH ESK & C* 99 *sq. mi.*								
D†	Fettercairn (The Burn)	Col. C. McInroy, C.B.	5	0	11	250	712	28·02	186
	,, (Police Station)	Mr. A. Mackenzie	5	1	0	230	753	29·64	171
†	,, (Fasque Gardens)	SirJRGladstoneBt*per*SMS	5	1	0	320	768	30·25	..

DIVISION XVII.—NORTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
KINCARDINE—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
2.—*BERVIE, COWIE & C.* 139 *sq. mi.*								
Todhead	Board of Northern Lights	3	4	0	135	581	22·89	..
D Stonehaven (Mains of Cowie)	John Hart, Esq.	5	1	0	93	613	24·15	184
Girdleness	Board of Northern Lights	7	4	0	185	594	23·44	..
3.—*DEE.* 144 *sq. mi.*								
†Strachan (Bridge of Dye)	Sir J R Gladstone Bt *per* SMS	5	1	0	515	806	31·75	..
Crathes (Spyhill)	Lieut. James Smith	5	1	0	510	784	30·88	..
D† ,, (Crossroad, Durris)	A. Macdonald, Esq.	5	1	0	420	769	30·29	208
Durris House [Drumoak] .. (R)	Mr. A. Reid	5	3	6	200	822	32·35?	..
D†Banchory (Invercannie)	Cecil H. Roberts, Esq. C.E.	5	1	0	205	714	28·12	176
†Crathes (Pinewood)	Lieut. James Smith	5	1	0	145	680	26·78	200
,, Castle	Mr. J. Petrie	5	1	0	240	678	26·69	..
Banchory (Hirn)	Mr. W. Caird	5	1	0	287	683	26·88	..
ABERDEEN. (Area, 1974 sq, mi.)								
1.—*DEE.* 672 *sq. mi.*								
Glen Clunie	Cecil H. Roberts, Esq. CE	5	1	0	1350	814	*32·06*	..
D Glen Muick	,, ,, ,,	5	1	0	1370	924	*36·38*	194
D Glen Tanner (Aitnach)	,, ,, ,,	5	1	0	1260	852	*33·55*	201
D†Braemar (Bank)	A. M. Shirran, Esq.	5	1	0	1114	778	30·65	168
† ,, (Derry Lodge)	Cecil H. Roberts, Esq., C.E.	5	1	0	1400	883	*34·76*	..
D†Balmoral Castle Gardens	Mr. J. M. Troup, M.V.O.	5	1	0	927	776	30·56	197
D Abergeldie Castle	Mr. R. F. Chalmers	5	1	0	..	711	27·98	219
D Ballater (Irrigation Farm)	Cecil H. Roberts, Esq. C.E.	5	1	0	637	699	27·51	182
Bienn Bhreac	,, ,, ,,	5	1	0	2700	1260	*49·60*	..
†Glen Gairn (GairnShiel Lodge)	,, ,, ,,	5	1	0	1100	830	*32·66*	..
D† ,, ,, (Corndavon Ldge.)	,, ,, ,,	5	1	0	1382	926	*36·46*	232
D Aboyne	,, ,, ,,	5	1	0	412	645	25·41	175
D Torphins (School House)	J. W. Williams, Esq.	5	1	6	410	590	23·23	151
Lumphanan	Cecil H. Roberts, Esq. C.E.	5	1	0	490	645	25·39	..
D Drumoak (Drum Castle)	A. F. Irvine, Esq.	5	0	8	320	583	22·96	179
D†Cromar (LogieColdstone School)	J. B. Anderson, Esq.	5	1	0	608	678	26·71	215
† ,, (,, ,, Loanhead)	Mr A Farquharson *per* S.MS	5	1	0	743	708	27·88	..
D Aberdeen (Mannofield Res.)	Cecil H. Roberts, Esq, C.E	5	1	0	171	696	27·42	216
D† ,, (Cranford House)	Mr. W. C. Smith	5	1	0	120	709	27·92	199
D ,, (Cornhill Road)	J. B. Innes, Esq.	5	1	0	150	742	29·22	193
2.—*DON.* 512 *sq. mi.*								
†Aberdeen (King's College)	Meteorological Office	11	2	0	44	715	28·16	200
D ,, (,, ,,)	,, ,,	8	1	0	43	698	27·51	190
Cockbridge (Delnadamph)	Cecil H. Roberts, Esq., C.E	5	1	0	1850	893	*35·14*	..
†Strathdon (Estates Office)	C. Christie,, Esq.	5	1	2	990	870	34·25	177
D Dyce (Parkhill House)	J. E. Crombie, Esq.	8	0	11	170	714	28·11	201
New Machar (Straloch)	Mrs. Irvine	..	..		320	848	33·38	..
D Inverurie (Westfield)	James Skinner, Esq.	5	1	0	..	672	26·45	225
3.—*YTHAN & C.* 285 *sq. mi.*								
D Ellon (Esslemont)	Col. J. Wolrige Gordon	5	1	8	100	707	27·83	214
D House of Schivas	Earl of Haddo	5	0	9	200	742	29·22	174
D Fyvie Castle	Col. C. R. Burn M.P.	5	0	6	200	955	37·61	168

DIVISION XVII.—NORTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Height Above Sea Level			
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	ABERDEEN—(*con.*)								
	4.—*UGIE & C.* 257 *sq. mi.*								
	Buchanness	Board of Northern Lights	3	3	0	130	669	26·35	177
D	Longside	T. R. Garrigan, Esq.	8	1	0	223	830	32·69	234
D	New Deer Schoolhouse	H. Cowie, Esq.	5	1	0	397	813	32·00	229
D	Peterhead (Mains of Buthlaw)	W. Johnston, Esq.	5	1	6	120	846	33·32	191
	,, (Forehill Works)	A. Stephen, Esq. *per* S.M.S.	..	..		115	755	29·74	..
D	Brucklay Castle *weekly*	A Dingwall Fordyce Esq M.P.	8	1	0	200	916	36·07	201
	Kinnairdhead	Board of Northern Lights	3	2	6	120	609	23·97	173
	5.—*DEVERON & C.* 248 *sq. mi.*								
D	Drumblade Public School	G. Harper, Esq.	5	1	6	485	921	36·26	212
	Huntly (Union Bank)	Alex. Smith, Esq.	5	1	0	405	888	34·97	..
	,, (Cruchie)	A. Joss, Esq.	5	4	0	400	895	35·24	179
	BANFF. (Area, 630 sq. mi.)								
	1.—*YTHAN.* 1 *sq. mi.*								
	2.—*DEVERON & C.* 344 *sq. mi.*								
D	Drummuir Castle	T. Gordon Duff, Esq.	5	1	0	605	987	38·86	234
D	Keith Station	Mr. A. Kennedy	5	1	0	364	923	36·35	146
	Buckie (Roughonnie) No. 2	W. Hendry, Esq.	5	1	4	392	768	30·22	..
	,, (,,) No. 1	,, ,, ,,	5	1	4	334	784	30·87	..
	,,	,, ,, ,,	5	1	4	76	760	29·91	..
D	Banff (Duff House)	A. B. Weir, Esq.	5	1	0	5	715	28·13	202
	Cullen House Gardens	Mr. F. Low	5	0	11	100	792	31·17	..
	3.—*SPEY—Right Bank Tributaries.* 285 *sq. mi.*								
D	Dufftown (Victoria Terrace)	Miss Walker	5	2	0	579	1028	40·47	234
D	Aberlour Orphanage	J. G. White, Esq.	5	1	0	350	877	34·52	155
	MORAY. (Area, 477 sq. mi.)								
	1.—*DEVERON & C.* 7 *sq. mi.*								
	2.—*SPEY—Right Bank Tributaries.* 35 *sq. mi.*								
D	Gordon Castle	Mr. C. Webster, *per* S.M.S.	5	1	0	107	791	31·16	219
	3.—*SPEY—Left Bank Tributaries.* 133 *sq. mi.*								
†	Grantown-on-Spey	W. Duncan, Esq.	5	1	1	700	863	33·98	205
	Knockando (Schoolhouse)	Charles Watt, Esq.	5	1	0	600	973	38·30	212
	4.—*LOSSIE & C.* 154 *sq. mi.*								
D	Pluscarden (Westerton House)	P. Oswald, Esq., *per* S.M.S.	..	..		240	922	36·29	212
D	Lhanbryde (Blackhills House)	T. N. Christie, Esq. *per* SMS	..	..		..	729	28·71	217
	Elgin (The Manse)	Rev. Dr. R. Macpherson	6	1	3	38	719	28·29	..
D	Duffus House	Mr. W. Ogg	5	1	0	55	761	29·95	185
	Covesea Skerries	Board of Northern Lights	7	3	6	52	628	24·72	..
	5.—*FINDHORN & C.* 148 *sq. mi.*								
	Darnaway Castle Gardens	Earl of Moray	5	1	3	200	803	31·62	158
	Brodie (Earlsmill House)	James Fenwick, Esq.	5	0	10	140	792	31·20	191
D	Forres (Altyre)	J. Finlayson, Esq.	5	1	0	110	829	32·65	193
	,, (Knockonnie)	W. Fraser, Esq. *per* SM.S.	6	0	10	100	702	27·63	..
	Kinloss House	Mrs. Mackessack	5	1	3	23	706	27·81	175
	NAIRN. (Area, 163 sq. mi.)								
	1.—*FINDHORN & C.* 102 *sq. mi.*								
D	Ardclach (Glenferness)	Mr. A. McKenzie	8	1	6	750	1016	39·99	201

DIVISION XVII.—NORTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		Sea Level			
NAIRN—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
2.—*NAIRN & C.* 61 *sq. mi.*								
Cawdor Castle	(R)Mr. D. Chapman	8	4	3	225	907	35·73	169
D Nairn (Achareidh)	H. A. Clarke, Esq.	8	1	0	59	761	29·97	215
,, (Delnies)	Meteorological Office	8	1	9	84	796	31·33	231
DIVISION XVIII.—NORTH WESTERN COUNTIES.								
INVERNESS. (Area, 4146 sq. mi.)								
1.—*TAY—Tummel.* 28 *sq. mi.*								
2.—*SPEY—Right Bank Tributaries.* 437 *sq. mi.*								
D†Nethy Bridge (U.F. Manse)	Rev. A. Sutherland	5	1	0	750	720	28·36	167
3.—*SPEY—Left Bank Tributaries.* 257 *sq. mi.*								
D Cluny Castle	Mr. A. Macdonald	5	1	2	900	989	38·92	232
Kingussie	*No.* 1DrWdeWatteville *pr*MOS	5	1	0	840	845	33·28	199
Kincraig (Inshriach)	J. Macdonald, Esq.	5	1	3	750	751	29·58	..
D Alvie Gardens	Mr. J. G. Fraser	5	1	3	800	927	36·51	231
D† ,, Manse	Rev. Dugald Maclean	5	1	0	760	823	32·38	238
D†Aviemore (Rothiemurchus)	W. Dempster, Esq.	5	1	0	706	827	32·55	188
Carrbridge Manse	Rev. A. Doag, *per* S.M.S.	5	0	11	850	809	31·85	..
D†Muckerach Lodge [Grantown]	Mr. J. Fraser	5	1	3	760	780	30·70	213
4.—*FINDHORN.* 164 *sq. mi.*								
5.—*NAIRN & C.* 131 *sq. mi.*								
Croy (Dalcross Castle)	The MacKinnon	5	0	6	400	894	35·21	178
6.—*NESS—Right Bank Tributaries.* 252 *sq. mi.*								
D Fort Augustus (St. Benedict's)	Rev. C. von Dieckhoff	5	1	0	68	1107	43·58	234
Loch Ness (Killin, Whitebridge)	BritishAluminiumCo.Ltd	8	1	0	1200	1215	47·84	..
D ,, ,, (Garthbeg)	,, ,, ,,	8	1	0	645	980	38·58	222
,, ,, (Foyers)	,, ,, ,,	8	1	0	52	964	37·96	198
,, ,, (Aberchalder)	,, ,, ,,	8	1	0	700	862	33·92	..
7.—*NESS—Garry & c.* 185 *sq. mi.*								
Loch Quoich (Loan)	MCol. D. W. Cameron	5	1	0	650	4319	170·03	..
D ,, ,, (Kinlochquoich)	,, ,, ,,	5	1	0	560	3699	145·64	230
D ,, ,, (Glenquoich)	TMacKenzie,Esq.*per*SMS	5	1	2	569	2901	114·20	249
Glen Garry (Inchlaggan)	Mr. M. Matheson	5	1	0	370	1467	57·74	292
D Invergarry Gardens	Mr. G. Robertson	5	1	0	130	1597	62·89	155
8.—*NESS—Moriston.* 120 *sq.* mi.								
9.—*NESS—Enrick.* 131 *sq. mi.*								
D Drumnadrochit	Mr. Angus Grant	5	1	0	138	956	37·65	224
D Inverness (High School)	W.G.MacConnachie,Esq.	5	1	0	98	736	29·00	177
10.—*BEAULY.* 341 *sq. mi.*								
11.—*CROMARTY FIRTH.* 13 *sq. mi.*								
12.—*SOUND OF SLEAT.* 259 *sq. mi.*								
D Loch Nevis (Inverie Gardens)	Mr. J. Huggins	5	0	6	10	2188	86·15	247
D Glenelg Manse	Rev. A. Mactaggart	5	1	0	85	1261	49·63	243
13.—*SOUND OF ARISAIG.* 126 *sq. mi.*								
D Moidart (Kinlochmoidart)	J. C. Stewart, Esq.	5	1	3	13	1878	73·94	236
D ,, (Roshven)	Mrs. Blackburn	5	1	0	40	1712	67·41	252
Loch Ailort (Inverailort)	Mrs. Cameron-Head	5	1	6	6	1897	74·68	..
D Arisaig (Faire-na-Sguir)	Miss C. C. Astley	5	1	10	30	1459	57·44	243
D ,, House	Mr. W. Grant	5	1	0	30	1645	64·77	243

DIVISION XVIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	INVERNESS—(*con.*)								
	14.—*LOCH LINNHE—Right Bank Tributaries.* 48 *sq. mi.*								
D	Loch Arkaig (Achnacarry)	Col. D. W. Cameron	5	1	0	120	1937	76·25	240
D	,, ,, (Glen Dessary)	,, ,, ,,	5	1	0	300	2847	112·08	231
	Clunes	,, ,, ,,	5	1	0	128	1741	68·55	242
	16.—*LOCHY—Left Bank Tributaries.* 362 *sq. mi.*								
	Loch Lochy (Invergloy)	Maj. G. I. Bailey	5	1	0	202	1550	61·02	217
	17.—*LOCH LINNHE—Left Bank Tributaries.* 120 *sq. mi.*								
D	NorthBallachulish(Alltshellach)	B.Chinnery-Haldane,Esq.	5	2	1	80	1751	68·95	223
D	Glenleven (BlackwaterDam,N.)7	British AluminiumCo.Ld	8	1	0	1072	1998	78·68	261
D	,, (KinlochmoreGdns.)	Brian Bibby, Esq.	5	1	0	115	2342	92·20	251
	,, (Chiaron House)No. 3	BritishAluminiumCoLd.	8	1	0	1200	2066	81·35	..
	,, (Cam Bridge)..No. 5	,, ,, ,,	8	1	0	1260	1675	65·95	..
D	Fort William (Atholl Bank)	W. T. Kilgour, Esq.	5	1	0	171	1735	68·30	248
	18.—*INSULAR, INNER HEBRIDES.* 786 *sq. mi.*								
	Hyskier	Board of Northern Lights	..	..		..	951	37·46	189
	Skye (Oronsay)	,, ,, ,,	..	0	6	58	1300	51·19	195
	,, (Duisdale House)	R.NoëlPatonEsq*per*S.M.S	..	..		60	2167	85·32	..
	,, (Kyleakin)	Board of Northern Lights	5	4	6	53	1119	44·07	236
D	,, (Scalpay Island)	Mr. D. Gunn	5	1	0	4	1803	70·97	231
	,, (Glendrynoch,L.Harport)	Mr. A. Macaskill	5	1	0	40	1335	52·57	..
	,, (Neist Point)	Board of Northern Lights	..	..		..	704	27·72	168
D	,, (Portree)	D. Dewar, Esq.	5	1	0	65	1399	55·09	242
D	,, (Dunvegan)	Mrs. Mackenzie	5	3	0	47	1732	68·19	229
	Rona	Board of Northern Lights	3	1	3	212	816	32·14?	223
	19.—*INSULAR, OUTER HEBRIDES.* 243 *sq. mi.*								
	Barra (Barrahead)	Board of Northern Lights	7	3	0	683	808	31·82	225
	,, (Castle Bay)	Meteorological Office	8	1	0	38	829	32·65	259
	South Uist (Ushenish)	Board of Northern Lights	3	1	0	178	1161	45·71	254
	North Uist (Monach)	,, ,, ,,	8	5	6	20	994	39·14	196
	Harris (Island Glass)	,, ,, ,,	7	4	2	130	1136	44·71	214
	ROSS & CROMARTY. (Area, 3237 sq. mi.)								
	1.—*NESS—Moriston.* 35 *sq. mi.*								
	2.—*BEAULY.* 109 *sq. mi.*								
	3.—*MORAY FIRTH COAST STREAMS.* 64 *sq. mi.*								
D	Fortrose	A. Thom, Esq.	5	1	0	69	864	34·01	204
	4.—*CROMARTY FIRTH* 714 *sq. mi.*								
	Achnashellach (Glenuaig)	W. M. Christy, Esq.	5	1	0	1150	3099	122·00	..
D	Achnasheen (Ledgowan)	Mr. H. C. R. Macrae	5	1	0	500	2079	81·87	240
	Achterneed (Glenskiach)	Mr. T. Dalling	5	1	6	458	935	36·82	..
	Cromarty House	Brig.-Gen.W.C.Ross,C.B.	5	1	0	60	733	28·85	202
	,,	Board of Northern Lights	3	1	0	28	679	26·73	193
D	Alness (Fyrish)	Oswald B. Cowan, Esq.	8	1	0	351	832	32·76	192
	Invergordon (The Ord)	W. G. Paterson, Esq.	5	1	1	50	676	26·60	..
D	Alness (Ardross Castle)	Mr. W L. Minty	5	1	0	450	1018	40·10	216
	5.—*DORNOCH FIRTH.* 355 *sq. mi.*								
D	Fearn (Lower Pitkerrie)	Miss D. Gordon	5	1	0	95	639	25·14	155
	Tarbatness	Board of Northern Lights	8	4	0	175	604	23·77	142
D	Ardgay (GledfieldHouseGdns.)	William Morrison, Esq.	8	1	0	120	932	36·70	197
	6.—*ENARD BAY.* 78 *sq. mi.*								
	Inverpolly Lodge	J. Scott Rae, Esq.	5	3	0	29	1046	41·17	..

DIVISION XVIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	ROSS—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	7.—*LOCH BROOM & C.* 367 *sq. mi.*								
	8.—*LOCH EWE, LOCH TORRIDON & C.* 423 *sq. mi.*								
D	Loch Torridon (Bendamph)	The Earl of Lovelace	5	0	5	20	2164	85·19	250
D	Poolewe (Inverewe Gardens)	Mr. R. B. Campbell	5	0	6	20	1558	61·36	216
	Rudh Ré Lighthouse	Board of NorthernLights	..	..		..	846	33·30	243
	9.—*LOCH CARRON, LOCH ALSH & C.* 401 *sq. mi.*								
	Glen Shiel (Shiel House)	MMr. Colin Campbell	5	..		..	1595	62·78	..
D	Loch Carron (Plockton)	Mrs. Anstruther Mackay	5	1	0	4	1391	54·75	245
D	,, ,,	G.J.CampbellEsq*per*SMS	..	..		..	1932	76·08	271
	Applecross Gardens	Mr. D. McCowan	9	1	0	70	1564	61·56	..
D	Glencarron Lodge	Mr. D. D. Munro	5	1	0	504	2184	85·99	249
	,, ,,	M ,, ,, ,,	5	1	0	504	2400	94·50	..
	10.—*INSULAR, OUTER HEBRIDES.* 691 *sq. mi.*								
	Stornoway	Meteorological Office	8	1	0	52	1281	50·42	281
	,, (Butt of Lewis)	Board of Northern Lights	8	4	6	170	1092	43·01	238

DIVISION XIX.—NORTHERN COUNTIES.

	STATIONS.	AUTHORITIES.	Diam.	ft.	in.	feet	mm.	inches	Days
	SUTHERLAND. (Area, 2080 sq. mi.)								
	1.—*DORNOCH FIRTH.* 413 *sq. mi.*								
	2.—*FLEET, BRORA & C.* 309 *sq. mi.*								
D	Dornoch (St. Gilbert's)	G. J. Campbell, Esq.	5	1	0	35	758	29·84	182
D	Golspie (Technical School)	E. W. Read, Esq.	6	1	9	105	953	37·54	*178*
D	Dunrobin Castle	Mr. D. Melville	5	1	6	14	917	36·10	172
	,, ,,	M ,, ,,	5	1	0	14	918	36·15	..
	3.—*HELMSDALE & C.* 226 *sq. mi.*								
	4.—*NORTH COAST STREAMS.* 736 *sq. mi.*								
D	Tongue Manse	Rev. David Lundie	5	1	0	180	1182	46·52	263
D	Bettyhill	Mr. Evander Mackay	5	1	0	100	1023	40·28	208
D	Melvich Schoolhouse	Mr. A. MacIntosh	5	1	0	..	1009	39·71	155
	Cape Wrath	Board of Northern Lights	7	4	8	400	1436	56·53	260
	5.—*LOCH LAXFORD & C.* 256 *sq. mi.*								
D	Loch More (Achfary)	Mr. J. Munro	5	1	0	167	2303	90·69	254
	6.—*ENARD BAY.* 138 *sq. mi.*								
	7.—*INSULAR.* 2 *sq. mi.*								
	CAITHNESS. (Area, 696 sq. mi.)								
	1.—*BERRIEDALE, DUNBEATH & C.* 169 *sq. mi.*								
D	Berriedale (Langwell Gardens)	Mr. J. Murray	5	1	6	100	1010	39·76	187
	Clythness	Board of Northern Lights	..	..		..	788	31·02	157
	2.—*WICK & C.* 184 *sq. mi.*								
	Wick	Meteorological Office	8	1	9	81	795	31·29	250
	Nosshead	Board of Northern Lights	7	4	7	175	736	28·97	..
	3.—*THURSO & C.* 238 *sq. mi.*								
D	Thurso (Buckies)	J. H. M. Davidson, Esq.	5	0	11	240	1233	48·53	256
	Castletown (WestGreenlandFm)	P. Finlayson, Esq.	5	1	0	150	919	36·19	..
	Thurso (Holburn Head)	Board of Northern Lights	3	0	8	75	750	29·54	201
	Dunnet Head	,, ,, ,,	3	1	0	246	825	32·50	..
	4.—*FORSS & C.* 104 *sq. mi.* ..								
D	Reay (The Manse)	Rev. Dugald Carmichael	8	1	0	50	1092	43·01	245

DIVISION XIX.—NORTHERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	CAITHNESS—(*con.*) 5.—*INSULAR.* 1 *sq. mi.*								
	Stroma	Board of Northern Lights	..		..	104	505	19·87	152
	Pentland Skerries	„ „ „	7	3	9	170	557	21·93	174
	ORKNEY. (Area, 389 sq. mi.)								
	Hoy (Cantickhead)	Board of Northern Lights	3	1	0	115	912	35·92	..
	„ (Graemsay Sound, High)	„ „ „	5	0	4	115	838	32·99	183
	„ („ „ Low)	„ „ „	8	4	3	55	895	35·22	214
	Copinsay	„ „ „	..	..	..	..	677	26·64	..
	Pomona (Deerness)	MagnusSpenceEq.*pr*SMS	5	4	0	161	966	38·03	221
D	„ (Kirkwall)	A. G. Spence, Esq.	5	1	0	72	1124	44·24	237
	Hellyar Holm	Board of Northern Lights	3	1	0	60	844	33·23	214
	Shapinsay (Balfour Castle)	Mr. W. Liddell	5	0	6	50	907	35·72	..
	Auskerry	Board of Northern Lights	3	2	6	10	687	27·04	..
	Sanday (Start Point)	„ „ „	3	1	0	80	1033	40·67	201
	Westray (Noup Head)	„ „ „	3	1	0	260	806	31·73	180
	North Ronaldshay	„ „ „	3	0	4	140	928	36·52	181
	Sule Skerry	„ „ „	3	0	6	113	720	28·36	200
	SHETLAND. (Area, 558 sq. mi.)								
	Fair Isle, South	Board of Northern Lights	..	..		..	529	20·83	192
	„ „ North	„ „ „	..	..	..	262	703	27·67	207
	Sumburgh Head	„ „ „	..	..	..	..	1026	40·40	162
	Bressay	„ „ „	3	1	0	105	822	32·36	..
	Lerwick (Fort Charlotte)	Meteorological Office	8	1	0	54	1328	52·30	277
D	Fetlar (The Manse)	Rev. J. A. Campbell	5	1	0	30	866	34·08	230
	Unst (Balta Sound, Halligarth)	Dr. T.E.Saxby,*per*M.O.S.	5	1	0	31	1156	45·52	282

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above SeaLevel	Depth of Rain 1917		Days with ·01 in. or more
CORK. (Area, 2873 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
1.—*SHANNON—Left Bank Tributaries*...79 *sq. mi.*								
2.—*DINGLE BAY.* 4 *sq. mi.*								
3.—*KENMARE & C.* 47 *sq. mi.*								
4.—*BANTRY BAY.* 197 *sq. mi.*								
D Garinish Island	Mr. V. Gammon	5	1	3	60	1467	57·74	227
5.—*DUNMANUS BAY.* 57 *sq. mi.*								
6.—*BANDON & C.* 694 *sq. mi.*								
D Castletownshend (Seafield)	Major H. Chavasse	5	0	8	40	895	35·22	200
Skibbereen (Hollybrook)	Col. A. H. Morgan, D.S.O.	8	1	2	60	1078	42·45	212
D Caheragh (The Rectory)	Rev. A. W. Whitley	5	0	11	98	1165	45·88	209
Clonakilty (Shannon Vale Ho.)	T. J. Bennett, Esq.	5	1	3	135	899	35·39	*201*
Ballineen (Kilmeen Rectory)	F. W Dobbin, Esq., M.D.	5	1	6	350	1077	42·42	..
D Dunmanway (The Rectory)	Rev. A. Wilson	5	1	6	205	1222	48·10	226
D ,, (Carbery)	Dr. W. H. Fitzmaurice	5	1	6	204	1226	48·28	218
D Enniskean (Kilcoleman)	Miss E. Longfield	5	3	0	180	1057	41·63	162
D Bandon (Ardnacarrig)	G. A. Armstrong, Esq.	5	1	0	126	996	39·22	183
7.—*CORK HARBOUR.* 726 *sq. mi.*								
†Roches Point	Meteorological Office	8	1	9	32	855	33·67	257
D†Midleton (Ballinacurra)	J. H. Bennett, Esq.	8	1	0	24	823	32·41	205
D†Cork (Corn Market)	D. J. O'Mahony, Esq.	5	1	0	19	863	33·96	195
D ,, (University College)	Prof. Isaac Swain	8	1	0	65	821	32·33	182
D ,, (Wellington Road)	R. C. Sikes, Esq., C.E.	5	2	6	120	796	31·35	161
D†Queenstown (Fota Island)	Mr. E. Beckett	5	1	6	35	879	34·62	192
D†Glanmire (Lota Lodge)	*No.* 1AFSharmanCrawfordEsq	5	1	0	200	915	36·04	211
D ,, (,, ,,)	*No.* 2 ,, ,, ,,	5	1	0	100	878	34·57	205
8.—*WOMANAGH & C.* 118 *sq. mi.*								
Shanagarry (Kinoith)	Miss L. P. Strangman	5	1	0	75	740	29·13	..
9.—*BLACKWATER.* 922 *sq. mi.*								
D Mallow (Summer Hill)	J. F. Williamson, Esq.	5	1	10	261	871	34·31	216
D ,, (Longueville)	R. E. Longfield, Esq.	5	1	1	310	808	31·80	206
Ballyhooley	H. Beddington, Esq.	5	0	9	..	1482	58·36	..
Kanturk (Castlecor)	Mrs. Barry	..	..		..	799	31·46	238
D Mitchelstown Castle	W. D. Webber, Esq.	8	4	0	340	935	36·80	210
10.—*SUIR.* 3 *sq. mi.*								
11.—*INSULAR.* 26 *sq. mi.*								

DIVISION XX.—MUNSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
		Diam.	Height Above Ground		SeaLevel			
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
KERRY. (Area, 1851 sq. mi.)								
1.—*SHANNON—Left Bank Tributaries.* 372 *sq. mi.*								
2.—*TRALEE BAY & C.* 221 *sq. mi.*								
3.—*DINGLE BAY.* 789 *sq. mi.*								
†Cahirciveen(Valencia Observt'y)	Meterological Office	11	2	8	30	1289	50·74	243
D† „ („ „)	„ „	8	1	0	30	1285	50·61	242
†Gap of Dunloe(Gearahameen) M	Dr. H. R. Mill	8	3	0	75	2156	84·90	..
D Killarney (Flesk Mills)	D.E.McDonnell,Esq.C.E.	8	2	6	95	1088	42·82	197
D† „ (District Asylum)	E.W.Griffin, Esq., M.D.	5	0	10	178	1157	45·57	267
4.—*KENMARE & C.* 426 *sq. mi.*								
D†Darrynane Abbey	D. O'Connell, Esq.	5	1	1	13	1160	45·69	250
D Kenmare (Derreen)	Mr. W. H. Arrowsmith	5	1	0	74	1490	58·66	237
„ (Dunkerron Castle)	Miss L. Palmer	5	1	6	70	1135	44·68	258
„ (Dromquinna)	R. P. Colomb, Esq.	5	1	0	70	1376	54·19	251
D „ (Dromore)	Lt.-Col. E. Hood	5	1	2	90	1362	53·64	222
5.—*BLACKWATER.* 30 *sq. mi.*								
6.—*INSULAR.* 13 *sq. mi.*								
Valencia (Glanleam)	Meteorological Office	8	1	0	12	1289	50·76	238
WATERFORD. (Area, 715 sq. mi.)								
1.—*BLACKWATER.* 243 *sq. mi.*								
D Lismore Castle	J. E. Penrose, Esq.	5	2	9	115	1019	40·11	167
Cappoquin House	Sir J. Keane, Bart.		2	6	..	1024	40·31	..
2.—*COLLIGAN & C.* 259 *sq. mi.*								
D Tramore (Midvale)	E. B. Jacob, Esq.	5	1	0	115	768	30·22	177
D „ („)	„ „ „	11	6	0	120	707	27·83	177
3.—*SUIR.* 213 *sq. mi.*								
D Knockaderry No.1	J. J. Fleming, Esq., C.E.	5	7	7	247	905	35·63	171
D „ No.2	„ „ „	5	7	7	247	877	34·54	171
D†Waterford (Brook Lodge)	C. P. Bolton,Esq., C.E.	5	1	0	104	861	33·88	180
D† „ (Tycor Waterworks)	J. J. Fleming, Esq.,C.E.	5	0	7	171	805	31·69	148
D „ (Grange House)	G. D. Croker, Esq.	5	1	0	200	788	31·01	157
„ (De La Salle Coll.)	Prof.M.J.Healy*per* M.O.	8	1	0	20	848	33·38	182
D „ (Coollegrean)	E. A. White, Esq.	5	1	0	28	909	35·79	156
† „ (Rocklands)	Edgar White,Esq,*per*MO.	5	2	0	20	845	33·27	164
D Portlaw (Mayfield)	J. Anderson, Esq.	5	4	0	70	899	35·41	194
„ (Curraghmore Gardns.)	Mr. D. Crombie	5	1	0	95	995	39·16	158
D Seskin [Carrick-on-Suir]	J. Ernest Grubb, Esq.	8	1	4	542	920	36·22	220
TIPPERARY. (Area, 1660 sq. mi.)								
1.—*SHANNON—Left Bank Tributaries.* 582 *sq. mi.*								
D Ballina [Killaloe]	Office of Public Works	5	2	0	127	1064	41·89	222
D Templederry Rectory	Rev. C. W. McDowell	5	1	0	440	903	35·54	204
D Nenagh (Traverston)	Miss Norris	5	1	0	330	975	38·38	249
D „ (Kilboy)	The Lady Dunalley	8	2	0	326	978	38·52	215
D „ (Castle Lough)	SParker-Hutchinson,Esq	5	1	3	120	906	35·67	203
2.—*BLACKWATER.* 21 *sq. mi.*								

DIVISION XX.—MUNSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
TIPPERARY—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
3.—*SUIR.* 965 *sq. mi.*								
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	8	1	3	110	844	33·24	201
D Cahir (Suirvale)	George Palmer,Esq.,C.E.	5	1	0	200	741	29·17	199
D ,, (Bengurragh)	R. W. Smith, Esq., jun.	5	1	0	199	870	34·24	200
,, (Abbey	Mrs. W. Rochfort	5	1	0	160	826	32·52	211
D Fethard (Coolmore)	E. W. M. Murphy, Esq.	5	1	0	347	879	34·62	201
D Cashel (Ballinamona)	,, ,, ,,	5	1	0	257	747	29·43	221
Ardmayle	L. H. Grubb, Esq.	5	1	6	260	662	26·08	..
4.—*BARROW—Nore.* 92 *sq. mi.*								
Kilcooley Abbey	T. B. Ponsonby, Esq.	5	1	3	500	775	30·53	170
D Roscrea (Timoney Park)	S Parker-Hutchinson,Esq	5	1	0	475	825	32·47	17[illegible]
LIMERICK. (Area, 1040 sq. mi.)								
1.—*SHANNON—Right Bank Tributaries.* 7 *sq. mi.*								
2.—*SHANNON—Left Bank Tributaries.* 944 *sq. mi.*								
D Knocklong (Kilfrush)	F. J. Gubbins, Esq.	5	0	9	310	935	36·81	229
Foynes (Coolnanes)	Lord Monteagle, *per* M.O	5	1	0	50	834	32·84	226
Limerick (Mungret College)	RevRWGallagher,*per*MO	5	1	0	49	789	31·06	198
† ,, (O'Connell Street)	F. O'Brien, Esq.	5	1	9	52	843	*33·19*	..
,, (Strand)	W. J. C. Horne, Esq.	5	1	0	50	885	34·87	209
,, (St. Michael's School)	Mr. J. G. Boyd	5	1	3	43	800	31·50	..
D Glenstal Castle	Mr. J. McBean	8	1	0	400	1148	45·21	196
D Castleconnell Rectory	Mrs. Davis	5	1	0	88	996	39·23	181
D Abbeyfeale (Springmount)	J. F. O'Kelly, Esq.	8	1	0	357	1013	39·90	217
3.—*BLACKWATER.* 64 *sq. mi.*								
4.—*SUIR.* 25 *sq. mi.*								
CLARE. (Area, 1270 sq. mi.)								
1.—*GALWAY BAY, SOUTH.* 100 *sq. mi.*								
2.—*MAL BAY & C.* 294 *sq. mi.*								
Inagh (Mount Callan)	Lt.ColFTottenham*per*MO	5	1	0	479	1525	60·07	242
D Ennistymon House	H. V. Macnamara, Esq.	5	1	0	37	1062	41·83	228
3.—*SHANNON—Right Bank Tributaries.* 854 *sq. mi.*								
D Carrigaholt Castle	W. C. V. Burton, Esq.	5	1	0	16	852	33·53	236
†Derravoher [Limerick]	Sir A. W. Shaw	5	1	0	40	835	32·86	206
D Killadysert (Paradise Hill)	Mrs. F. B. Henn	5	0	11	125	1004	39·51	220
D Newmarket-on-Fergus	Mr. A. Barker	5	1	0	86	922	36·31	205
D Broadford (Hurdlestown)	Colonel W. A. Bentley	5	1	0	167	1071	42·16	231
D Mountshannon (Woodpark)	R. F. Hibbert, Esq.	5	1	0	170	1027	40·42	223
4.—*INSULAR.* 22 *sq. mi.*								

DIVISION XXI.—LEINSTER.

STATIONS.	AUTHORITIES.	Diam.	ft.	in.	feet	mm.	inches	Days
WEXFORD. (Area, 902 sq. mi.)								
1.—*BARROW.* 43 *sq. mi.*								
2.—*OWENDUFF & C.* 240 *sq. mi.*								
D Fethard-on-Sea Rectory	Rev. W. F. A. Ellison	5	1	0	40	755	29·74	202
D Foulkesmill (Longraigue)	Miss J. Deane	5	1	1	220	862	33·94	163

DIVISION XXI.—LEINSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	WEXFORD—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	3.—*SLANEY & C.* 467 *sq. mi.*								
D	Templeudigan (BallindoneyHo.)	Janssen Bugden, Esq. ..	5	1	0	434	941	37·03	207
D	Enniscorthy (Ballyhyland)	late Mrs. Moffat........	5	1	0	365	972	38·27	219
D	„ (Summerville) ..	W. Waring, Esq.	5	6	0	106	763	*30·04*	188
	„ (Monksgrange) ..	Goddard H. Orpen,Esq..	5	1	0	565	1056	41·59	172
	„ (Woodbrook)	E. C. Blacker, Eaq. ...	5	1	0	370	1067	42·01	176
	4.—*OWENAVORRAGH & C.* 146 *sq. mi.*								
D	Oulart (Wells)	C. M. Doyne, Esq.	5	1	0	220	842	33·16	218
	Gorey (Courtown House)	Earl of Courtown	5	3	0	60	837	32·97	189
	5.—*OVOCA & C.* 6 *sq. mi.*								
	KILKENNY. (Area, 798 sq. mi.)								
	1.—*SUIR.* 162 *sq. mi.*								
D	Piltown (Bessborough)	Mr. T. E. Tomalin	8	3	7	60	847	33·35	213
	2.—*BARROW—Nore.* 527 *sq. mi.*								
	Inistioge(Woodstock,Mt.Alto)..	Mrs. Tighe	8	1	0	860	757	29·79	..
D	„ („).........	„ „	6	1	0	400	703	27·66	156
	Kilkenny Castle..............	Mr. E. Sutton	8	1	6	195	759	29·87	225
†	„ (Lavistown House) ..	Miss F. E. Butler	5	2	5	170	711	28·00	179
D	Castlecomer House	R.H.Prior-Wandesforde	5	1	0	392	974	38·34	230
	3.—*BARROW.* 109 *sq. mi.*								
D	Goresbridge(BarraghcoreHouse)	H. de M. Fleming, Esq. .	5	1	0	130	730	28·73	211
	WICKLOW. (Area, 781 sq. mi.)								
	1.—*BARROW.* 12 *sq. mi.*								
	2.—*SLANEY.* 200 *sq. mi.*								
D	Shillelagh (Coollattin Gardens)	Duncan Brough, Esq....	5	0	7	383	1020	40·17	170
	3.—*OVOCA & C.* 241 *sq. mi.*								
	Rathdrum (Avondale)	A. C. Forbes, Esq.	5	0	6	414	912	35·89	..
	4.—*VARTY & C.* 193 *sq. mi.*								
D	Wicklow (Wentworth House)	E. N. Wynne, Esq.,C.E.	5	1	1	23	745	29·35	189
D	Rathnew (Clonmannon)	Rev. W. H. A. Truell ..	5	1	0	27	745	29·33	193
D	Roundwood (Vartry Lodge) ..	M. A. Moynihan,Esq.C.E.	5	1	6	720	898	35·36	209
D	„	„ „ „ ..	5	1	6	800	975	38·38	210
D	„ (Knockatemple) .	„ „ „ ..	5	1	6	760	907	35·71	219
	Newcastle (Killadreenan)......	Sir J. W. Moore, M.D. ..	8	1	2	270	807	31·76	211
	Tithewer	M.A.Moynihan,Esq.,C.E.	5	1	6	1000	855	33·66	..
	Annacarter Schoolhouse.......	„ „ „ ..	5	1	6	750	941	37·03	..
	Greystones (Auburn)	Sir J. W. Moore, M.D. .	5	1	4	30	693	*27·27*	*186*
	„ (Coolagad)	lateDr.J.H.M.Armstrong	5	0	9	190	810	31·89	196
	5.—*LIFFEY & C.* 135 *sq. mi.*								
	CARLOW. (Area, 346 sq. mi.)								
	1.—*BARROW—Nore.* 9 *sq. mi.*								
	2.—*BARROW.* 216 *sq. mi.*								
	Bagnalstown (Fenagh House)..	D. R. P. Beresford, Esq.	5	1	0	340	817	32·15	164
	„ („ „) M	„ „ „ ..	5	1	0	340	782	30·77	..
	3.—*SLANEY.* 121 *sq. mi.*								
	Hacketstown Rectory	Rev. C. S. S. Ellison ...	5	1	2	600	928	36·52	220

DIVISION XXI.—LEINSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1917		Days with ·01 in. or more
	QUEEN'S COUNTY. (Area, 664 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*SHANNON—Left Bank Tributaries.* 25 *sq. mi.*								
	2.—*BARROW—Nore.* 339 *sq. mi.*								
D	Abbey Leix (Blandsfort)	H. Bland, Esq.	5	2	6	530	861	33·91	212
	Mountrath (Ballyfin)	Mr. R. Bower	8	1	4	600	1485	58·46	..
D	,, (Baunreagh)	A. C. Forbes, Esq.	5	1	0	810	1271	50·03	229
	3.—*BARROW.* 300 *sq. mi.*								
	Sunnyside [Carlow]	E. Shackleton, Esq.	5	1	0	178	764	30·09	..
	Mountmellick	W.A.Robinson Esq *per* MO	5	1	0	252	841	33·11	179
	KING'S COUNTY. (Area, 772 sq. mi.)								
	1.—*SHANNON—Left Bank Tributaries.* 560 *sq. mi.*								
	Birr Castle	Earl of Rosse, *per* M.O.	8	1	0	175	823	32·40	221
D	,, (Moneyguyneen)	Miss N. B. Biddulph	5	1	6	300	817	32·18	214
D	Victoria Lock [Meelick]	Office of Public Works	5	2	0	124	789	31·05	183
D	Tullamore (Rathrobin)	Lt.Col. M.W. Biddulph	5	1	0	400	941	37·05	215
D	,, (St.Catherine'sRect.)	Rev. R. S. Craig	5	1	0	201	849	33·43	209
	,, (Union Workhouse)	Dr. G. A. Moorhead	5	1	0	225	1009	39·71	264
D	Ferbane (TurraunPeatWorks) A	Leinster Carbonizing Co.	8	1	2	170	927	36·48	208
D	,, (,, ,, ,,)B	,, ,, ,,	8	1	2	170	927	36·50	202
D	Ballycumber (Moorock Lodge)	H. P. Mulock, Esq.	5	1	0	228	867	34·13	191
	2.—*BARROW—Nore.* 5 *sq. mi.*								
	3.—*BARROW.* 156 *sq. mi.*								
	4.—*BOYNE.* 51 *sq. mi.*								
	KILDARE. (Area, 654 sq. mi.)								
	1.—*BARROW.* 332 *sq. mi.*								
D	Castledermot (Millbrook)	T. Westland Greene,Esq.	8	1	4	225	751	29·58	..
D	Monasterevan (Moore Abbey)	Mr. C. Pilgrim	5	1	0	236	817	32·17	200
	2.—*LIFFEY.* 246 *sq. mi.*								
	Sallins (Palmerstown)	The Countess of Mayo	5	1	0	321	713	28·07	216
D	Straffan House	Mr. W. Ogilvie	5	1	0	240	773	30·42	200
D	Clongowes Wood College	Rev. C. J. Power, S.J.	8	1	0	246	670	26·35	182
	3.—*BOYNE.* 76 *sq. mi.*								
	DUBLIN. (Area, 354 sq. mi.)								
	1.—*VARTRY & C.* 23 *sq. mi.*								
	Carrickmines (Claremont)	John Read, Esq.	5	0	11	300	620	24·42	..
D	Ballybrack (Marino)	Rt. Hon. L. A. Waldron	5	3	6	..	548	21·58	154
	2.—*LIFFEY & C.* 188 *sq. mi.*								
D	Glen-na Smoel(RathminesW.W)	W. R. Stephens,Esq.,C.E.	5	1	0	510	1121	44·12	244
D	Ballyboden (,, ,,)	,, ,, ,,	5	1	0	344	796	31·36	197
	Glenageary (Inver)	J. C. Larminie, Esq.	5	1	4	80	586	23·07	..
D	Stillorgan (Farmleigh)	T. Jackson, Esq.	5	1	2	220	765	30·12	212
D	,, (Tipperstown)	T. D. Lochtie, Esq.	5	1	4	278	610	24·02	154
D†	Blackrock (Charleville)	J. Harold Pim, Esq.	5	1	0	260	648	25·51	144
	Dundrum (Belfort House)	Sir J. W. Moore, M.D.	5	..		..	707	27·84	202
D	Kingstown (Harbour Yard)	Office of Public Works	8	1	0	44	631	24·86	166
D	Belgard Castle	Capt. A. F. Maude	5	1	0	400	789	31·07	191

DIVISION XXI.—LEINSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in. or more
		in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
DUBLIN—(*con.*)								
2.—*LIFFEY & C.*—(*con.*)								
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	5	0	6	125	697	27·46	194
D ,, (Harold's Cross)....	E. H. Cannon, Esq. ...	5	0	11	155	673	26·50	192
D ,, (Ormond Road) ...	W. R. Stephens, Esq.C.E	5	1	0	99	722	28·43	201
D ,, (Dartrey Road) ..	T. Mason, Esq.	5	6	0	..	738	29·04	176
D Ranelagh (Sandford Lodge) ..	H. Fayle, Esq.	5	0	11	61	713	28·07	186
Donnybrook (Belmont Avenue)	Douglas Waring, Esq. ..	5	0	9	100	738	29·06	184
,, (Anglesea Road) .	F. C. D. Joynt, Esq. ..	5	1	6	30	668	26·32	179
Clondalkin (Cheeverstown)	Sir J. W. Moore, M.D.	5	1	4	350	739	29·08	205
D†Dublin (FitzWilliam Square) .	,, ,, ,, .	8	1	6	54	737	29·03	200
D† ,, (Trinity College)	C. M. Connolly, Esq.....	8	1	0	13	711	28·00	195
D† ,, (Phœnix Park)	Ordnance Survey Office	8	1	0	155	765	30·10	214
D ,, (Ringsand Pumpg.Sta.)	Vincent Crosby, Esq. .	10	1	1	25	668	26·29	178
D Clontarf (Pumping Station)....	E. FitzGerald, Esq.	5	4	9	22	699	27·53	190
Palmerston(StewartInstitution)	Mr. H. Innes	5	1	0	154	779	30·69	..
D Glasnevin(Roy.BotanicGdns.) .	Sir F. W. Moore	8	1	0	55	760	29·93	217
D Howth Castle................	J.G.St.Lawrence, Esq. ..	5	1	6	25	688	27·07	181
3.—*NANNY, DELVIN & C.* 142 *sq. mi.*								
D Malahide (Seamount)	J. G. Jameson, Esq. ...	5	1	0	150	744	29·31	182
,, (The Green).........	T. Bateman, Esq.	5	1	7	25	671	26·43	185
D†Skerries (Milverton Hall)	Capt. E. G. Woods ...	5	1	6	190	707	27·83	196
D†Balbriggan (Ardgillan)...No. 1	Capt. E. R. Taylor ...	5	1	0	211	771	30·34	205
† ,, (,,)...No. 3	,, ,, ,, ...	5	1	0	211	767	30·21	..
4.—*INSULAR.* 1 *sq. mi.*								
D Lambay Island	Hon. Cecil Baring	5	1	0	20	676	26·62	168
MEATH. (Area, 909 sq. mi.)								
1.—*SHANNON—Left Bank Tributaries.* 32 *sq. mi.*								
2.—*LIFFEY & C.* 72 *sq mi.*								
Dunboyne (Stirling, Clonee) ...	Mr. J. Pilkington	8	1	0	231	840	33·09	211
3.—*NANNY, DELVIN, & C.* 150 *sq. mi.*								
D Mullacroghan [Drogheda]	W. Brydon Hill, Esq. ..	5	1	6	300	722	28·41	181
4.—*BOYNE.* 560 *sq. mi.*								
D Summerhill House	Lord Langford	5	1	0	372	881	34·68	189
D Athboy (Mitchelston)	W. J. Hopkins, Esq.....	5	1	0	260	873	34·35	202
D ,, (Frankville)	C. P. Coghill, Esq.	8	1	3	227	916	36·05	214
D Navan (Staffordstown)	R. J. Butler, Esq.	5	1	0	250	770	30·32	200
D Kells (Headfort)	The Marquis of Headfort	8	0	6	227	851	33·51	212
5.—*DUNDALK BAY.* 95 *sq. mi.*								
WESTMEATH. (Area, 712 sq, mi.)								
1.—*SHANNON—Left Bank Tributaries.* 517 *sq. mi.*								
D Athlone	Office of Public Works ..	5	2	0	132	719	28·30	206
D ,, (Twyford)	J. P. Hodson, Esq.	5	5	0	188	1020	40·17	220
D Moate (Coolatore)	H. A. S. Upton, Esq. .	5	1	6	369	968	38·12	229
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1	0	367	965	37·99	195
D ,, (Ballynegall Gdns.) .	Mr. W. Wood	5	2	0	500	952	37·47	230
Rathowen (Cromlyn)	(R)Maj.-Gen.J.P Battersby	8	1	6	250	878	34·57	232
D Castlepollard (Gillardstown Ho.)	W. Hardy, Esq.	5	1	0	290	766	30·17	170
D ,, (Pakenham Hall)	Mr. W. Allan	5	1	6	300	910	35·83	222
2.—*BOYNE.* 195 *sq. mi.*								

DIVISION XXI.—LEINSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1917		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level			
	LOUTH. (Area, 316 sq. mi.)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	1.—*BOYNE. 32 sq. mi.*								
	2.—*DUNDALK BAY & C. 264 sq. mi.*								
D	Dundalk (Town Hall)	M. Sellars, Esq., C.E.	8	55	0	82	773	30·45	197
D	,, (Mount Pleasant)	Telford Macneill, Esq.	5	1	0	60	967	38·06	232
D	,, (Aughneskea Res.)	M. Sellars, Esq., C.E.	5	1	3	207	1053	41·46	208
	,, (Ballymacallet)	,, ,, ,,	5	3	6	375	974	38·33	..
	3.—*CARLINGFORD LOUGH. 20 sq. mi.*								
D	Greenore	T. Chambers, Esq., C.E.	5	1	0	20	849	33·44	217
	LONGFORD. (Area, 424 sq. mi.)								
	1.—*ERNE. 61 sq. mi.*								
	2.—*SHANNON—Left Bank Tributaries. 363 sq. mi.*								
D	Ballymahon (New Castle)	Col. W.H.King-Harman	5	2	5	250	979	38·54	238
	Longford (The Rectory)	Rev. H. Justice	5	1	0	185	985	38·76	223
D	Cloondrah	Office of Public Works	5	2	0	130	749	29·48	229
D	Castle Forbes Gardens	The Earl of Granard	8	1	0	168	947	37·29	244

DIVISION XXII.—CONNAUGHT.

	STATIONS.	AUTHORITIES.	Diam.	Ground ft.	Ground in.	Sea Level	mm.	inches	Days
	GALWAY. (Area, 2377 sq. mi.)								
	1.—*ERIFF & C. 141 sq. mi.*								
	2.—*GALWAY BAY, NORTH. 277 sq. mi.*								
	3.—*CORRIB. 846 sq. mi.*								
D	Ballynahinch Castle	R. Berridge, Esq.	5	1	9	41	1651	65·01	258
D	Headford (Ower House)	Lt.-Col. C. Beddington	5	1	0	50	1149	45·25	246
	Tuam (Gardenfield)	R. J. Kirwan, Esq.	5	1	0	155	1095	43·13	..
	4.—*GALWAY BAY, SOUTH. 281 sq. mi.*								
D	Woodlawn	Mr. C. Farmer	5	3	6	300	991	39·02	207
	5.—*SHANNON—Right Bank Tributaries. 803 sq. mi.*								
	6.—*INSULAR. 29 sq. mi.*								
	ROSCOMMON. (Area, 961 sq. mi.)								
	1.—*SLIGO BAY. 6 sq. mi.*								
	2.—*MOY. 11 sq. mi.*								
	3.—*CORRIB. 16 sq. mi.*								
	4.—*SHANNON—Right Bank Tributaries. 928 sq. mi.*								
D	Strokestown (Castlenode)	W. J. Walpole, Esq.	5	1	0	160	939	36·96	192
D	Albert Lock [Jamestown]	Office of Public Works	5	2	0	146	849	33·42	201
	MAYO. (Area, 2149 sq. mi.)								
	1.—*SLIGO BAY. 10 sq. mi.*								
	2.—*MOY & C. 797 sq. mi.*								
D	Crossmolina (Enniscoe)	J. Pratt, Esq.	5	0	11	74	1375	54·14	254
	3.—*BLACKSOD BAY & C. 411 sq. mi.*								
	Blacksod Point	Meteorological Office	8	0	10	332	1211	47·68	269
	4.—*CLEW BAY. 254 sq. mi.*								
D	Westpoint House	Marquis of Sligo	5	1	0	35	1172	*46·15*	234
D	,, (St. Helen's)	Miss Kelly	6	0	11	35	1139	*44·84*	256
D	Newport (Burrishoole House)	H.M.Anketell Jones, Esq.	5	1	10	30	1466	57·71	256

DIVISION XXII.—CONNAUGHT—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
			Diam.	Height Above Ground		SeaLevel	1917		
	MAYO—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	5.—*ERIFF & C.* 121 *sq. mi.*								
D	Aasleagh House	Marquis of Sligo	5	1	0	50	2335	*91·94*	260
D	Delphi Lodge	,, ,,	5	1	0	110	2517	99·11	268
	6.—*CORRIB.* 432 *sq. mi.*								
D	Ballycurrin [Headfort]	Lt.-Col. C. Beddington	5	1	0	..	1087	42·81	241
D	Cong (The Glebe)	Rev. Canon R. Y. Lynn	5	1	11	112	1286	50·63	237
	7.—*SHANNON—Right Bank Tributaries.* 35 *sq. mi.*								
	8.—*INSULAR.* 89 *sq. mi.*								
D	Dugort (Slievemore Hotel)	Mrs. J. R. Sheridan	5	1	0	50	1735	68·29	250
	SLIGO. (Area, 716 sq. mi.)								
	1.—*DROWES & C.* 49 *sq. mi.*								
	2.—*SLIGO BAY.* 444 *sq. mi.*								
D	Collooney (Markree Obsy)	J. R. Armstrong, Esq.	5	1	0	127	1305	51·38	255
	,, (,, ,,)	,, ,, ,,	5	16	6	138	1294	50·96	255
D	Sligo	R. J. Kirwan, Esq.	5	1	0	90	1179	46·41	241
	3.—*MOY & C.* 166 *sq. mi.*								
	4.—*SHANNON—Right Bank Tributaries.* 56 *sq. mi.*								
	5.—*INSULAR.* 1 *sq. mi.*								
	LEITRIM. (Area, 615 sq. mi.)								
	1.—*ERNE.* 152 *sq. mi.*								
	Carrigallen	MissH.M.Beattie,*per*M.O	5	0	8	285	670	26·30?	..
	2.—*DROWES & C.* 85 *sq. mi.*								
	3.—*SLIGO BAY.* 135 *sq. mi.*								
	4.—*SHANNON—Right Bank Tributaries.* 47 *sq. mi.*								
	5.—*SHANNON—Left Bank Tributaries.* 196 *sq. mi.*								
D	Ruskey	Office of Public Works	5	2	0	141	746	29·39	216
D	Drumshanbo(LoughAllen Sluice)	,, ,, ,,	5	2	0	169	710	27·97	175

DIVISION XXIII.—ULSTER.

	STATIONS.	AUTHORITIES.	Diam.	ft.	in.	feet	mm.	inches	Days
	CAVAN. (Area, 753 sq. mi.) ..								
	1.—*ERNE.* 489 *sq. mi.*								
D	Killeshandra (Drom Mullac)	Miss Prudence M. Lough	5	1	0	280	973	38·31	177
D	Belturbet (Cloverhill)	Mrs. Sanderson	5	1	0	202	881	34·68	227
	2.—*SHANNON—Right Bank Tributaries.* 34 *sq. mi.*								
	3.—*SHANNON—Left Bank Tributaries.* 91 *sq. mi.*								
	4.—*BOYNE.* 122 *sq. mi.*								
	Bailieborough	Rev. D. O'Reilly	5	1	0	511	1020	40·16	232
	5.—*DUNDALK BAY.* 17 *sq. mi.*								
	FERMANAGH. (Area, 713 sq. mi.)								
	1.—*ERNE.* 667 *sq. mi.*								
D	Enniskillen (Florence Court)	F. Cowley, Esq.	5	1	5	269	1075	42·32	225
	,, (Portora)	W. N. Tetley, Esq.	5	1	0	251	1039	40·90	..
	Belleek (Heronshaw)	J. Beacom, Esq.	5	1	5	150	1251	49·26	228
	2.—*DROWES & C.* 46 *sq. mi.*								
	MONAGHAN. (Area, 498 sq. mi.)								
	1.—*ERNE.* 208 *sq. mi.*								
D	Dartrey [Cootehill]	The Earl of Dartrey	5	2	6	265	1026	40·39	227
	2.—*DUNDALK BAY.* 132 *sq. mi.*								

DIVISION XXIII.—ULSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diam.	Rain Gauge. Height Above Ground		Rain Gauge. Height Above Sea Level	Depth of Rain. 1917		Days with ·01 in or more
			in.	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	MONAGHAN—(*con.*)								
	3.—*BANN—Lough Neagh, West.* 158 *sq. mi.*								
D	Monaghan (Workhouse)	Dr. J. Campbell Hall	5	5	6	240	822	32·37	200
	ARMAGH. (Area, 514 sq. mi.)								
	1.—*DUNDALK BAY.* 118 *sq. mi.*								
	2.—*CARLINGFORD LOUGH.* 23 *sq. mi.*								
D	Bessbrook (Deramore)	Mr. W. Smith	5	1	6	252	895	35·25	204
	3.—*BANN—Lough Neagh, East.* 37 *sq. mi.*								
D	Lurgan (Belle Vue)	S. A. Bell, Esq.	5	0	5	200	762	30·02	201
	4.—*BANN, UPPER.* 144 *sq. mi.*								
	Tanderagee	Dr. J. Taylor	5	1	6	198	924	36·37	..
	,, (R)	,, ,, ,,	8	1	6	198	909	35·80	..
	5.—*BANN—Lough Neagh, West.* 192 *sq. mi.*								
D	Armagh Observatory	Meteorological Office	8	1	0	210	793	31·23	219
	,, ,, (R)	,, ,,	11	2	0	196	879	34·62	235
	Loughgall (Manor House)	Mrs. Sowter	5	1	0	210	796	31·35	224
	DOWN. (Area, 961 sq. mi.)								
	1.—*CARLINGFORD LOUGH.* 104 *sq. mi.*								
D	Warrenpoint (Clonallon)	Lt.-Col. A. W. Mansergh	5	1	3	15	913	35·95	204
D	Newry (Bridge Street Ho.)	C. Blaney, Esq.	5	1	0	23	932	36·70	201
	2.—*DUMDRUM BAY & C.* 173 *sq. mi.*								
D	Mourne Mount'ns (Fofanny Res.)	J. H. H. Swiney, Esq., C.E.	5	1	0	938	1416	55·75	161
	Newcastle (R. Co. Down Golf Club)	J. Howden, Esq.	5	1	8	10	995	39·19?	..
D	Seaforde	Major W. G. Forde	8	0	5	180	960	37·79	203
	3.—*STRANGFORD LOUGH.* 260 *sq. mi.*								
D	Newtownards (Scrabo Hill)	Newtownards U.D.C.	..	1	6	540	838	32·99	191
	4.—*COAST STREAMS.* 47 *sq. mi.*								
	Donaghadee (Orlock Head)	Meteorological Office	8	1	6	101	763	30·05	219
	5.—*BELFAST LOUGH.* 206 *sq. mi.*								
	6.—*BANN—Lough Neagh, East.* 7 *sq. mi.*								
	7.—*BANN, UPPER.* 162 *sq. mi.*								
D	Rathfryland (Muddock Bridge)	Mr. W. Henning	5	3	0	300	729	28·70	163
	Banbridge (Observatory)	Mr. H. D. Fleming	5	1	6	210	801	31·53	179
D	,, (Milltown)	J. E. Kennedy, Esq.	5	1	0	200	845	33·27	220
	,, (Millbank)	J. W. Mulligan, Esq., M.D.	5	1	0	257	748	29·45	204
D	Moyallon House [Portadown]	Mr. J. Lynas	5	0	5	130	848	33·39	202
	8.—*INSULAR.* 2 *sq. mi.*								
	ANTRIM. (Area, 1193 sq. mi.)								
	1.—*BELFAST LOUGH.* 107 *sq. mi.*								
D	Lisburn (Ulster Provincial Sch.)	J. Ridges, Esq., *per* M.O.	5	1	6	208	1215	47·84	220
D†	Belfast (Queen's University)	Mr. G. Robinson	5	1	0	62	914	36·00	224
D	,, (Cave Hill Road)	Miss Firth	5	1	0	200	1108	43·62	254
D	,, (Sewage Outfall Wks) (R)	H. A. Cutler, Esq.	8	2	11	26	940	37·02	210
	,, (Oldpark Filters)	F. W. McCullough, Eq. C.E.	5	3	6	203	1041	40·97	237
	Jordanstown (Lenamore)	R. D. Purcell, Esq.	5	1	9	100	951	37·44	..
	Carrickfergus (Dorisland)	F. W. McCullough, Eq. C.E.	5	3	0	250	954	37·57	221
	,, (South Woodburn)	,, ,, ,,	5	3	0	640	989	38·95	228
	,, (North ,,)	,, ,, ,,	5	3	0	735	1093	43·05	231
	,, (Copeland)	,, ,, ,,	5	3	0	424	862	33·93	226
	,, (Lough Mourne)	,, ,, ,,	5	3	0	596	1030	40·57	232

DIVISION XXIII.—ULSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
			Diam.	Height Above Ground		Sea Level	1917		
	ANTRIM—(*con.*)		*in.*	*ft.*	*in.*	*feet*	*mm.*	*inches*	
	2.—*GLENARM & C.* 186 *sq. mi.*								
D	Larne (Sallagh Springs)	J.H.H.Swiney, Esq., C.E.	5	1	0	566	1323	52·09	210
D	Glenarm Castle	The Earl of Antrim	5	1	0	70	1210	47·63	193
	3.—*BUSH & C.* 193 *sq. mi.*								
	4.—*BANN, LOWER.* 112 *sq. mi.*								
	Ballymoney (Balnamore)	George Smyth, Esq.	5	1	5	50	1089	42·86	232
	5.—*BANN—Lough Neagh, East.* 590 *sq. mi.*								
	Stonyford (Belfast W.W.)	F.W.McCullough, Esq. C.E	5	1	6	437	979	38·53	222
	Antrim (Ardnaveigh)	H. B. Murray, Esq.	5	1	6	210	871	34·28	210
D	Ballymena (Harryville)	J. R. Williams, Esq.	5	1	5	150	1209	47·62	249
D	Broughshane (Quolie)	H. O'Hara, Esq., C.E.	5	1	4	893	1376	54·18	255
	6.—*INSULAR.* 5 *sq. mi.*								
	LONDONDERRY. (Area, 816 sq. mi.)								
	1.—*LOUGH SWILLY.* 6 *sq. mi.*								
D	Londonderry (Dunruadh)	J. H. Welch, Esq.	5	0	6	130	1201	47·27	248
	2.—*BUSH & C.* 9 *sq. mi.*								
	3.—*BANN, LOWER.* 240 *sq. mi.*								
	4.—*BANN—Lough Neagh, West.* 196 *sq. mi.*								
	5.—*FOYLE & C.* 365 *sq. mi.*								
D	Londonderry (Creggan Res.)	Mr. W. Hutchison	8	1	0	320	1332	52·44	269
	Limavady (Drenagh)	M. M. McCausland, Esq.	5	1	6	80	1102	43·38	232
D	,, (Culmore Ho., Myroe)	J. B. Martin, Esq.	8	1	0	13	1066	41·97	218
	Bellarena	Sir F. G. Heygate, Bart.	5	1	3	7	1100	43·30	234
	TYRONE. (Area, 1257 sq. mi.)								
	1.—*ERNE.* 46 *sq. mi.*								
	2.—*BANN—Lough Neagh, West.* 442 *sq. mi.*								
	Dungannon (Killyman Rectory)	Rev. E. F. Campbell	5	0	11	150	996	39·21	..
	3.—*FOYLE.* 769 *sq. mi.*								
D	Omagh (Edenfel)	Lt.Col. J. B. Buchanan	8	1	0	280	1156	45·53	247
D	NewtownStewart (Baron'sCourt)	Mr. R. Bell	5	1	0	250	1078	42·44	237
D	Sion Mills (Sion House)	Miss G. T. Herdman	5	3	0	100	1075	42·33	237
	DONEGAL. (Area, 1875 sq. mi.)								
	1.—*DONAGH & C.* 146 *sq. mi.*								
	Malin Head	Meteorological Office	8	1	0	220	989	38·93	239
	2.—*LOUGH SWILLY.* 273 *sq. mi.*								
D	Letterkenny (DistrictAsylum)	E. E. Moore, Esq.	5	1	0	183	1265	49·80	255
	3.—*SHEEPHAVEN & C.* 307 *sq. mi.*								
D	Milford (The Manse)	Rev. W. J. Young	5	1	6	150	1165	45·88	255
	Dunfanaghy (St. Helen's)	J.J.MacGrath, Esq., M.D.	8	1	0	55	1231	48·47	253
D	,, (Horn Head)	late C. F. Stewart, Esq.	5	2	0	163	1251	49·25	270
	4.—*GWEEBARRA & C.* 341 *sq. mi.*								
	5.—*DONEGAL BAY.* 322 *sq. mi.*								
D	Killebegs (Rockmount)	Com.G.G.Philipps, R.N.	5	1	0	65	1758	69·21	251
	6.—*ERNE.* 68 *sq. mi.*								
	7.—*DROWES & C.* 10 *sq. mi.*								
	8.—*FOYLE.* 396 *sq. mi.*								
	9.—*INSULAR.* 12 *sq. mi.*								

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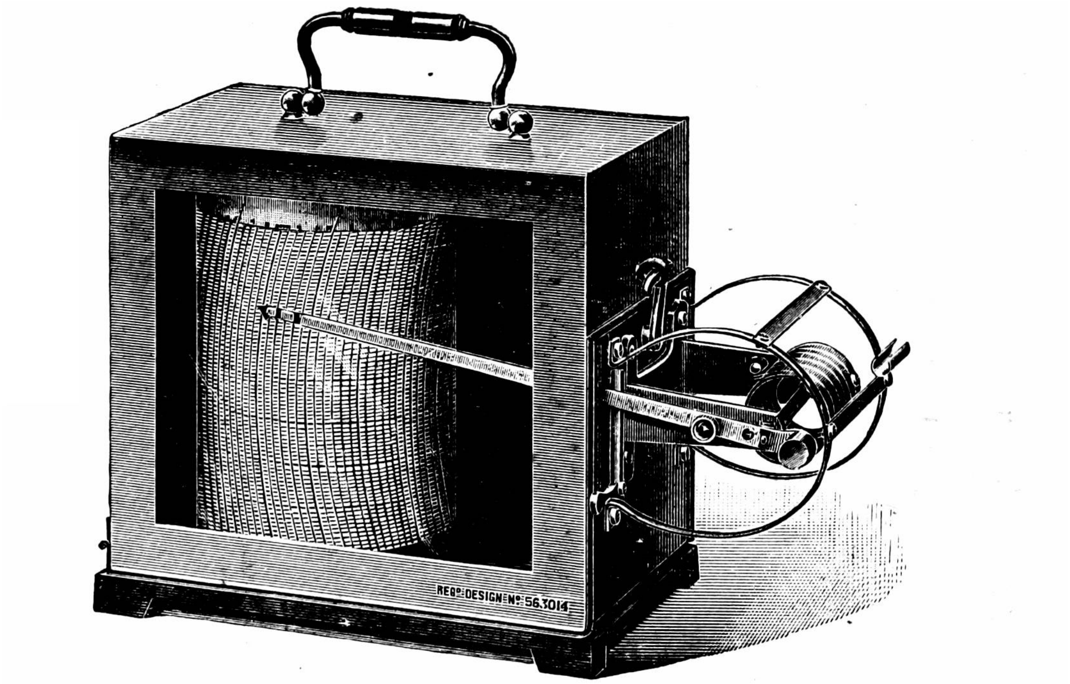

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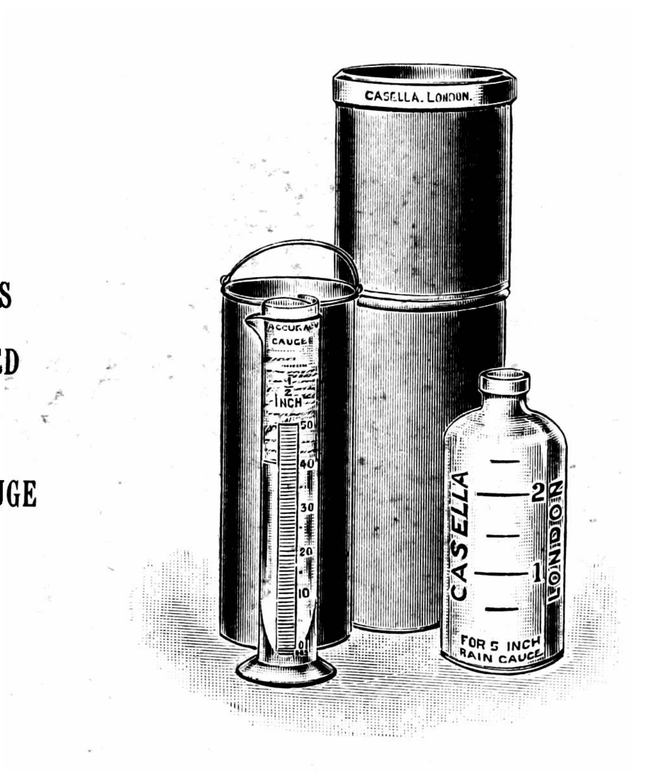

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